IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-M-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33718.PSO
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 10/28/14
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI
[LUMCAT] APX24LL40-UNV-M-LFA
[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS MEDIUM OPTICS DIRA-FR50 LENS
[LAMP] LED. LUMINAIRE OUTPUT = 20213 LMS
[TESTDATE] 10/28/14

CHARACTERISTICS



Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	191
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.50 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11031	9397	9213
55	8567	6834	6696
65	6604	4874	4822
75	4593	3142	3266
85	1795	1545	1985

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	9899.39	9899.39	9899.39	9899.39	9899.39	9899.39	9899.39	9899.39	9899.39	9899.39
2.5	9865.33	9869.36	9885.17	9887.26	9883.12	9887.26	9885.17	9869.36	9865.33	9869.36
5.0	9795.60	9799.52	9828.39	9839.36	9833.65	9839.36	9828.39	9799.52	9795.60	9799.52
7.5	9680.86	9686.37	9725.28	9750.78	9750.03	9750.78	9725.28	9686.37	9680.86	9686.37
10.0	9516.78	9529.90	9583.49	9626.76	9619.77	9626.76	9583.49	9529.90	9516.78	9529.90
12.5	9307.45	9333.69	9400.96	9444.56	9446.44	9444.56	9400.96	9333.69	9307.45	9333.69
15.0	9050.42	9093.36	9170.78	9221.53	9225.65	9221.53	9170.78	9093.36	9050.42	9093.36
17.5	8752.94	8807.94	8898.20	8952.92	8967.13	8952.92	8898.20	8807.94	8752.94	8807.94
20.0	8413.85	8476.78	8582.49	8651.06	8665.69	8651.06	8582.49	8476.78	8413.85	8476.78
22.5	8036.64	8106.02	8228.25	8310.44	8325.28	8310.44	8228.25	8106.02	8036.64	8106.02
25.0	7630.60	7707.39	7842.70	7930.13	7946.40	7930.13	7842.70	7707.39	7630.60	7707.39
27.5	7199.38	7279.14	7429.59	7516.94	7541.97	7516.94	7429.59	7279.14	7199.38	7279.14
30.0	6751.52	6834.94	6995.75	7080.26	7096.27	7080.26	6995.75	6834.94	6751.52	6834.94
32.5	6285.48	6378.65	6542.19	6620.56	6637.10	6620.56	6542.19	6378.65	6285.48	6378.65
35.0	5817.82	5917.98	6077.27	6142.95	6168.14	6142.95	6077.27	5917.98	5817.82	5917.98
37.5	5358.97	5458.16	5607.54	5680.53	5702.56	5680.53	5607.54	5458.16	5358.97	5458.16
40.0	4911.58	5005.01	5150.78	5224.44	5238.74	5224.44	5150.78	5005.01	4911.58	5005.01
42.5	4478.69	4568.40	4714.66	4773.69	4781.74	4773.69	4714.66	4568.40	4478.69	4568.40
45.0	4064.82	4155.02	4294.09	4334.97	4340.23	4334.97	4294.09	4155.02	4064.82	4155.02
47.5	3677.25	3760.92	3892.60	3926.01	3934.19	3926.01	3892.60	3760.92	3677.25	3760.92
50.0	3316.98	3388.84	3512.28	3555.62	3561.25	3555.62	3512.28	3388.84	3316.98	3388.84
52.5	2983.45	3047.28	3161.49	3204.90	3212.14	3204.90	3161.49	3047.28	2983.45	3047.28
55.0	2675.18	2732.68	2834.36	2876.75	2886.68	2876.75	2834.36	2732.68	2675.18	2732.68
57.5	2387.36	2443.74	2535.32	2576.14	2583.90	2576.14	2535.32	2443.74	2387.36	2443.74
60.0	2116.49	2174.19	2254.91	2302.46	2313.20	2302.46	2254.91	2174.19	2116.49	2174.19
62.5	1863.44	1917.05	1997.12	2049.16	2061.97	2049.16	1997.12	1917.05	1863.44	1917.05
65.0	1628.30	1674.87	1754.32	1812.51	1822.68	1812.51	1754.32	1674.87	1628.30	1674.87
67.5	1402.80	1449.49	1525.00	1586.13	1599.95	1586.13	1525.00	1449.49	1402.80	1449.49
70.0	1187.40	1237.36	1310.28	1375.93	1393.03	1375.93	1310.28	1237.36	1187.40	1237.36
72.5	986.09	1035.57	1111.10	1182.60	1202.29	1182.60	1111.10	1035.57	986.09	1035.57
75.0	796.21	843.61	924.34	1002.91	1023.65	1002.91	924.34	843.61	796.21	843.61
77.5	613.17	663.76	749.61	834.44	860.10	834.44	749.61	663.76	613.17	663.76
80.0	442.43	497.87	590.07	684.53	713.48	684.53	590.07	497.87	442.43	497.87
82.5	292.35	350.64	452.26	553.76	584.84	553.76	452.26	350.64	292.35	350.64
85.0	170.25	230.57	339.23	441.32	475.28	441.32	339.23	230.57	170.25	230.57
87.5	86.66	151.99	260.62	357.27	390.34	357.27	260.62	151.99	86.66	151.99
90.0	55.13	104.87	200.60	290.24	322.70	290.24	200.60	104.87	55.13	104.87
92.5	52.52	84.08	158.51	237.27	267.12	237.27	158.51	84.08	52.52	84.08
95.0	51.21	78.18	134.23	198.82	225.73	198.82	134.23	78.18	51.21	78.18
97.5	49.94	74.01	123.24	175.46	198.46	175.46	123.24	74.01	49.94	74.01
100.0	48.40	69.55	117.42	162.65	181.70	162.65	117.42	69.55	48.40	69.55
102.5	45.75	65.07	111.54	155.08	172.10	155.08	111.54	65.07	45.75	65.07
105.0	43.46	60.53	106.50	149.35	165.54	149.35	106.50	60.53	43.46	60.53
107.5	40.86	56.00	100.77	142.85	159.51	142.85	100.77	56.00	40.86	56.00
110.0	37.74	51.01	95.20	136.60	152.85	136.60	95.20	51.01	37.74	51.01
112.5	34.57	46.05	89.12	129.41	145.44	129.41	89.12	46.05	34.57	46.05
115.0	31.62	41.02	82.87	122.02	137.50	122.02	82.87	41.02	31.62	41.02
117.5	28.27	35.86	76.64	114.28	129.28	114.28	76.64	35.86	28.27	35.86
120.0	25.78	30.93	70.20	106.85	121.48	106.85	70.20	30.93	25.78	30.93
122.5	22.80	25.95	63.89	98.96	113.12	98.96	63.89	25.95	22.80	25.95
125.0	20.01	21.49	57.04	90.79	103.94	90.79	57.04	21.49	20.01	21.49
127.5	17.31	17.19	50.50	82.93	96.26	82.93	50.50	17.19	17.31	17.19
130.0	15.20	13.76	43.82	75.93	87.97	75.93	43.82	13.76	15.20	13.76
132.5	13.19	11.25	37.20	67.77	78.85	67.77	37.20	11.25	13.19	11.25

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CANDELA TABULATION - (Cont.)

135.0	11.37	9.37	30.69	59.98	70.03	59.98	30.69	9.37	11.37	9.37
137.5	9.42	7.90	24.26	51.46	61.33	51.46	24.26	7.90	9.42	7.90
140.0	7.80	6.56	18.45	43.65	52.61	43.65	18.45	6.56	7.80	6.56
142.5	6.45	5.43	13.32	35.67	43.93	35.67	13.32	5.43	6.45	5.43
145.0	5.14	4.47	9.39	28.56	35.47	28.56	9.39	4.47	5.14	4.47
147.5	4.13	3.66	6.32	21.57	28.05	21.57	6.32	3.66	4.13	3.66
150.0	3.31	2.88	4.14	15.54	20.70	15.54	4.14	2.88	3.31	2.88
152.5	3.03	2.74	3.80	10.38	14.59	10.38	3.80	2.74	3.03	2.74
155.0	2.65	2.94	3.72	6.91	9.86	6.91	3.72	2.94	2.65	2.94
157.5	3.08	3.17	3.52	4.82	6.89	4.82	3.52	3.17	3.08	3.17
160.0	3.33	3.43	3.52	4.31	5.03	4.31	3.52	3.43	3.33	3.43
162.5	3.47	3.27	3.75	4.08	4.42	4.08	3.75	3.27	3.47	3.27
165.0	3.46	3.60	3.54	3.89	4.08	3.89	3.54	3.60	3.46	3.60
167.5	3.54	3.32	3.40	3.70	3.86	3.70	3.40	3.32	3.54	3.32
170.0	3.31	3.57	3.52	3.74	3.53	3.74	3.52	3.57	3.31	3.57
172.5	3.81	3.47	3.66	3.79	3.85	3.79	3.66	3.47	3.81	3.47
175.0	3.63	4.04	3.78	3.76	3.89	3.76	3.78	4.04	3.63	4.04
177.5	4.06	3.95	3.39	3.88	3.90	3.88	3.39	3.95	4.06	3.95
180.0	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	9899.39	9899.39	9899.39	9899.39	9899.39	9899.39	9899.39
2.5	9885.17	9887.26	9883.12	9887.26	9885.17	9869.36	9865.33
5.0	9828.39	9839.36	9833.65	9839.36	9828.39	9799.52	9795.60
7.5	9725.28	9750.78	9750.03	9750.78	9725.28	9686.37	9680.86
10.0	9583.49	9626.76	9619.77	9626.76	9583.49	9529.90	9516.78
12.5	9400.96	9444.56	9446.44	9444.56	9400.96	9333.69	9307.45
15.0	9170.78	9221.53	9225.65	9221.53	9170.78	9093.36	9050.42
17.5	8898.20	8952.92	8967.13	8952.92	8898.20	8807.94	8752.94
20.0	8582.49	8651.06	8665.69	8651.06	8582.49	8476.78	8413.85
22.5	8228.25	8310.44	8325.28	8310.44	8228.25	8106.02	8036.64
25.0	7842.70	7930.13	7946.40	7930.13	7842.70	7707.39	7630.60
27.5	7429.59	7516.94	7541.97	7516.94	7429.59	7279.14	7199.38
30.0	6995.75	7080.26	7096.27	7080.26	6995.75	6834.94	6751.52
32.5	6542.19	6620.56	6637.10	6620.56	6542.19	6378.65	6285.48
35.0	6077.27	6142.95	6168.14	6142.95	6077.27	5917.98	5817.82
37.5	5607.54	5680.53	5702.56	5680.53	5607.54	5458.16	5358.97
40.0	5150.78	5224.44	5238.74	5224.44	5150.78	5005.01	4911.58
42.5	4714.66	4773.69	4781.74	4773.69	4714.66	4568.40	4478.69
45.0	4294.09	4334.97	4340.23	4334.97	4294.09	4155.02	4064.82
47.5	3892.60	3926.01	3934.19	3926.01	3892.60	3760.92	3677.25
50.0	3512.28	3555.62	3561.25	3555.62	3512.28	3388.84	3316.98
52.5	3161.49	3204.90	3212.14	3204.90	3161.49	3047.28	2983.45
55.0	2834.36	2876.75	2886.68	2876.75	2834.36	2732.68	2675.18
57.5	2535.32	2576.14	2583.90	2576.14	2535.32	2443.74	2387.36
60.0	2254.91	2302.46	2313.20	2302.46	2254.91	2174.19	2116.49
62.5	1997.12	2049.16	2061.97	2049.16	1997.12	1917.05	1863.44
65.0	1754.32	1812.51	1822.68	1812.51	1754.32	1674.87	1628.30
67.5	1525.00	1586.13	1599.95	1586.13	1525.00	1449.49	1402.80
70.0	1310.28	1375.93	1393.03	1375.93	1310.28	1237.36	1187.40
72.5	1111.10	1182.60	1202.29	1182.60	1111.10	1035.57	986.09
75.0	924.34	1002.91	1023.65	1002.91	924.34	843.61	796.21
77.5	749.61	834.44	860.10	834.44	749.61	663.76	613.17
80.0	590.07	684.53	713.48	684.53	590.07	497.87	442.43

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CANDELA TABULATION - (Cont.)

82.5	452.26	553.76	584.84	553.76	452.26	350.64	292.35
85.0	339.23	441.32	475.28	441.32	339.23	230.57	170.25
87.5	260.62	357.27	390.34	357.27	260.62	151.99	86.66
90.0	200.60	290.24	322.70	290.24	200.60	104.87	55.13
92.5	158.51	237.27	267.12	237.27	158.51	84.08	52.52
95.0	134.23	198.82	225.73	198.82	134.23	78.18	51.21
97.5	123.24	175.46	198.46	175.46	123.24	74.01	49.94
100.0	117.42	162.65	181.70	162.65	117.42	69.55	48.40
102.5	111.54	155.08	172.10	155.08	111.54	65.07	45.75
105.0	106.50	149.35	165.54	149.35	106.50	60.53	43.46
107.5	100.77	142.85	159.51	142.85	100.77	56.00	40.86
110.0	95.20	136.60	152.85	136.60	95.20	51.01	37.74
112.5	89.12	129.41	145.44	129.41	89.12	46.05	34.57
115.0	82.87	122.02	137.50	122.02	82.87	41.02	31.62
117.5	76.64	114.28	129.28	114.28	76.64	35.86	28.27
120.0	70.20	106.85	121.48	106.85	70.20	30.93	25.78
122.5	63.89	98.96	113.12	98.96	63.89	25.95	22.80
125.0	57.04	90.79	103.94	90.79	57.04	21.49	20.01
127.5	50.50	82.93	96.26	82.93	50.50	17.19	17.31
130.0	43.82	75.93	87.97	75.93	43.82	13.76	15.20
132.5	37.20	67.77	78.85	67.77	37.20	11.25	13.19
135.0	30.69	59.98	70.03	59.98	30.69	9.37	11.37
137.5	24.26	51.46	61.33	51.46	24.26	7.90	9.42
140.0	18.45	43.65	52.61	43.65	18.45	6.56	7.80
142.5	13.32	35.67	43.93	35.67	13.32	5.43	6.45
145.0	9.39	28.56	35.47	28.56	9.39	4.47	5.14
147.5	6.32	21.57	28.05	21.57	6.32	3.66	4.13
150.0	4.14	15.54	20.70	15.54	4.14	2.88	3.31
152.5	3.80	10.38	14.59	10.38	3.80	2.74	3.03
155.0	3.72	6.91	9.86	6.91	3.72	2.94	2.65
157.5	3.52	4.82	6.89	4.82	3.52	3.17	3.08
160.0	3.52	4.31	5.03	4.31	3.52	3.43	3.33
162.5	3.75	4.08	4.42	4.08	3.75	3.27	3.47
165.0	3.54	3.89	4.08	3.89	3.54	3.60	3.46
167.5	3.40	3.70	3.86	3.70	3.40	3.32	3.54
170.0	3.52	3.74	3.53	3.74	3.52	3.57	3.31
172.5	3.66	3.79	3.85	3.79	3.66	3.47	3.81
175.0	3.78	3.76	3.89	3.76	3.78	4.04	3.63
177.5	3.39	3.88	3.90	3.88	3.39	3.95	4.06
180.0	3.94	3.94	3.94	3.94	3.94	3.94	3.94

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3501.26	N.A.	17.30
0-30	7087.9	N.A.	35.10
0-40	10856.25	N.A.	53.70
0-60	16665.38	N.A.	82.40
0-80	19379.22	N.A.	95.90
0-90	19767.73	N.A.	97.80
10-90	18838.06	N.A.	93.20
20-40	7355.00	N.A.	36.40
20-50	10640.36	N.A.	52.60
40-70	7542.5	N.A.	37.30
60-80	2713.84	N.A.	13.40
70-80	980.47	N.A.	4.90
80-90	388.51	N.A.	1.90
90-110	269.02	N.A.	1.30
90-120	351.09	N.A.	1.70
90-130	403.38	N.A.	2.00
90-150	441.18	N.A.	2.20
90-180	445.17	N.A.	2.20
110-180	176.15	N.A.	0.90
0-180	20212.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	929.67
10-20	2571.59
20-30	3586.64
30-40	3768.35
40-50	3285.36
50-60	2523.77
60-70	1733.37
70-80	980.47
80-90	388.51
90-100	157.68
100-110	111.34
110-120	82.07
120-130	52.29
130-140	27.53
140-150	10.27
150-160	2.58
160-170	1.05
170-180	0.36

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

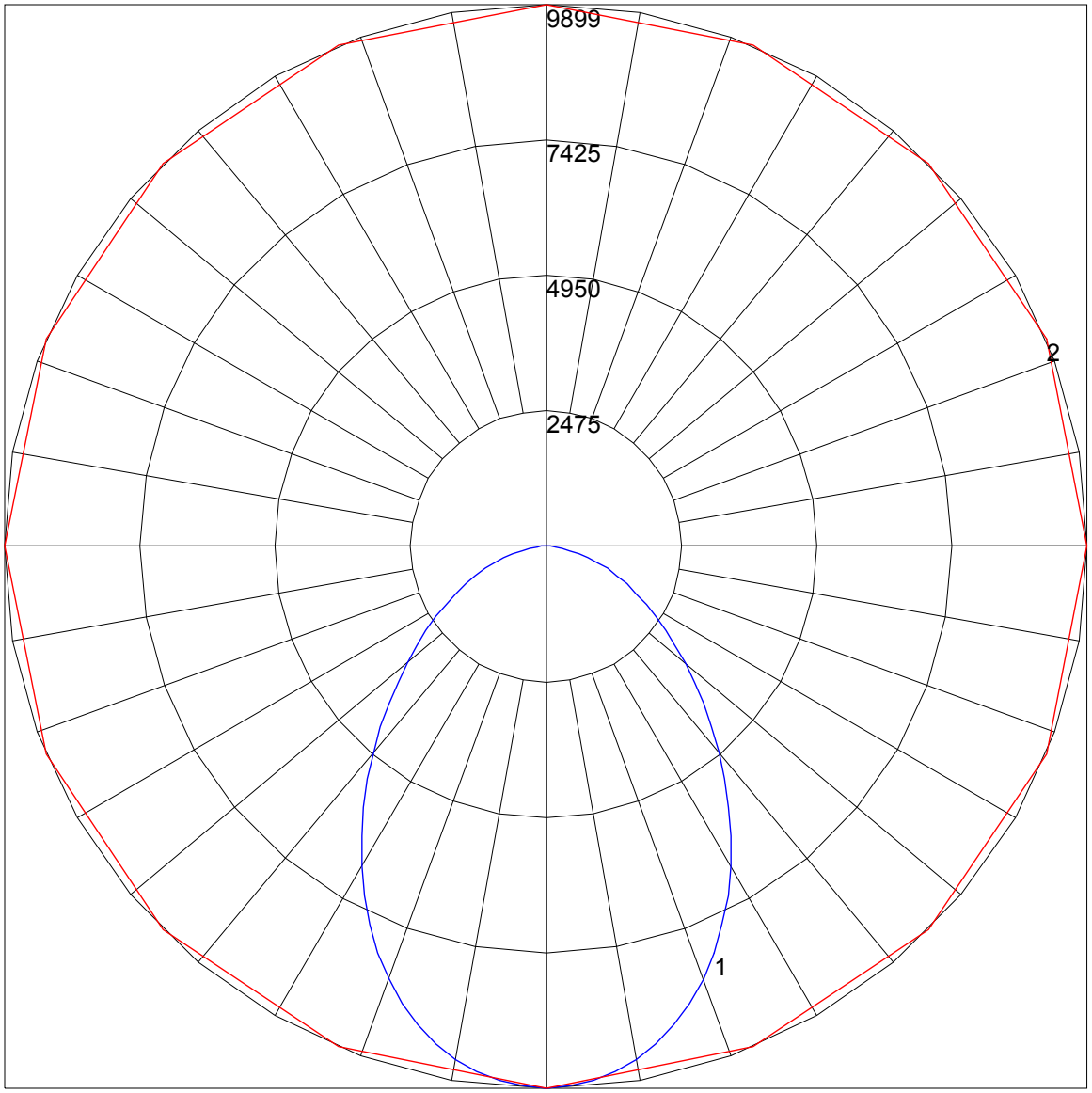
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	109	105	101	97	106	102	99	96	98	95	92	93	91	89	90	88	86	84
2	100	93	87	81	98	91	85	80	87	82	78	83	79	76	80	77	74	72
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	72	68	64	62
4	85	74	66	60	83	73	65	59	70	64	58	68	62	57	65	60	56	54
5	79	67	59	53	77	66	58	52	64	57	51	61	55	51	59	54	50	48
6	73	61	53	47	71	60	52	46	58	51	46	56	50	45	54	49	45	43
7	68	56	48	42	67	55	47	42	53	46	41	52	45	41	50	45	40	38
8	64	51	43	38	62	50	43	38	49	42	37	48	41	37	46	41	37	35
9	60	47	40	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX24LL40-UNV-M-LFA.IES

POLAR GRAPH



Maximum Candela = 9899.39 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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