

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P183614

Luminaire Tested: **LSM80M8035D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P183614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27020)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSM80M8035D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE, MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: 80 CRI, 3500K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8775.1 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.33
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

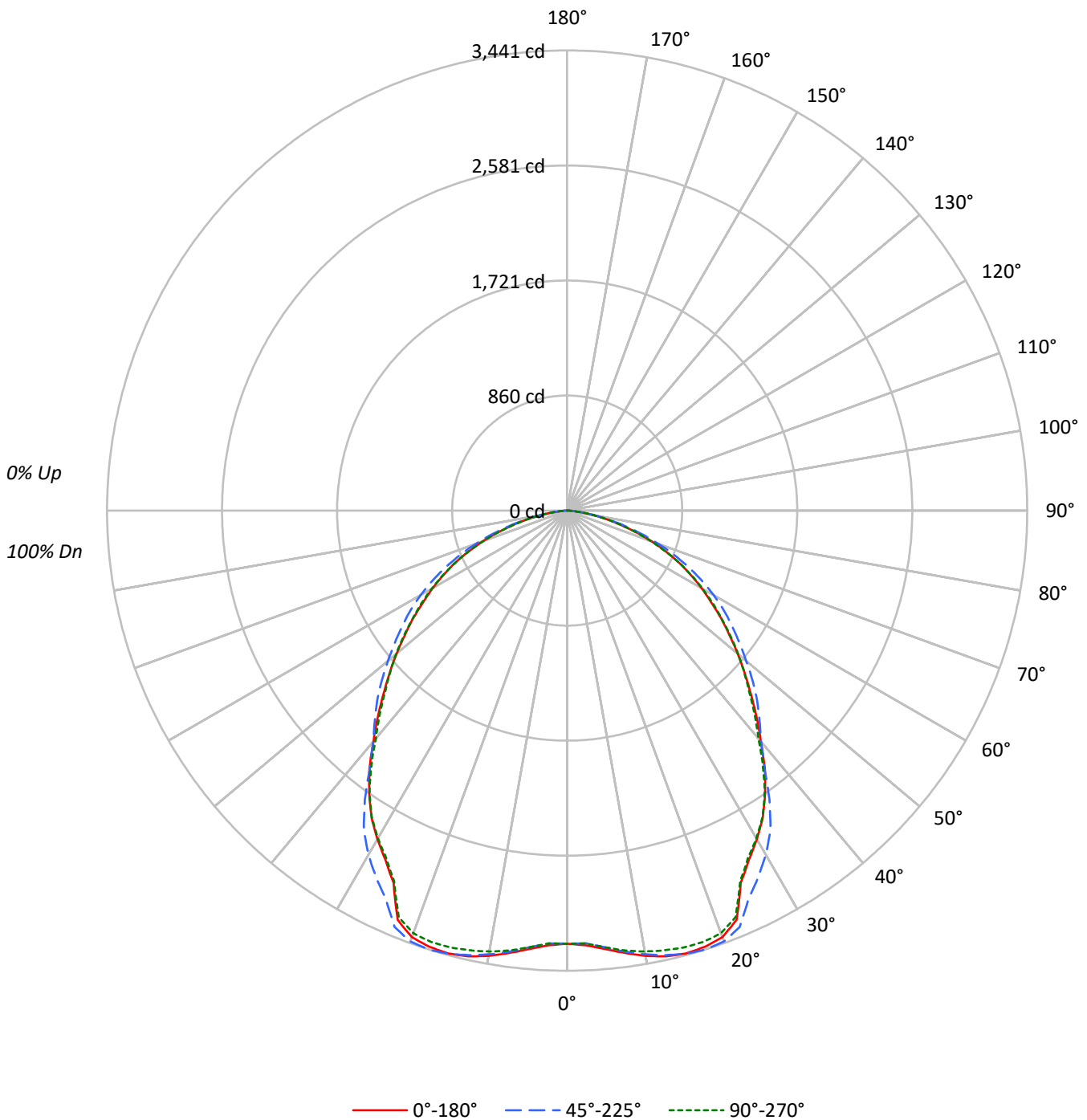
Input Watts (W): 88.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35068	35068	35068
5°	35784	35645	35632
10°	37172	37057	36814
15°	38435	38462	37912
20°	39118	39508	38755
25°	36700	38302	36560
30°	35476	37153	35373
35°	34115	34854	34053
40°	31848	31864	31469
45°	29752	30771	29519
50°	28014	29448	28132
55°	26529	28423	26639
60°	25155	27403	25356
65°	23665	25697	23634
70°	21229	22929	21118
75°	17468	18832	17514
80°	12728	13601	13089
85°	7393	7827	7678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.6	3.6
10°-20°	971.0	11.1
20°-30°	1458.0	16.6
30°-40°	1596.0	18.2
40°-50°	1561.2	17.8
50°-60°	1347.1	15.4
60°-70°	963.0	11.0
70°-80°	473.1	5.4
80°-90°	88.2	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2746.5	31.3
0°-40°	4342.5	49.5
0°-60°	7250.8	82.6
0°-90°	8775.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8775.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3238	3238	3238	3238	3238	
5°	3292	3320	3279	3305	3278	317
15°	3428	3475	3431	3434	3382	968
25°	3072	3254	3206	3232	3060	1431
35°	2581	2541	2637	2511	2576	1607
45°	1943	2072	2009	2049	1928	1504
55°	1405	1532	1506	1517	1411	1257
65°	924	974	1003	964	922	910
75°	418	441	450	433	419	448
85°	60	63	63	62	62	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4
2.5°	3253.5	3280.3	3258.2	3253.5	3234.9	3279.2	3262.8	3266.3	3253.5	3255.8	3238.4
5°	3292.0	3320.0	3299.0	3293.2	3274.5	3320.0	3303.7	3306.0	3293.2	3296.7	3279.2
7.5°	3337.5	3366.6	3344.5	3341.0	3323.5	3369.0	3353.8	3356.1	3342.1	3344.5	3327.0
10°	3380.6	3412.1	3390.0	3387.6	3370.1	3419.1	3402.8	3405.1	3388.8	3390.0	3370.1
12.5°	3414.4	3447.1	3424.9	3424.9	3408.6	3455.3	3442.4	3444.8	3428.4	3428.4	3405.1
15°	3428.4	3462.3	3438.9	3442.4	3426.1	3475.1	3463.4	3464.6	3450.6	3454.1	3430.8
17.5°	3420.3	3454.1	3433.1	3435.4	3420.3	3470.4	3458.8	3463.4	3451.8	3461.1	3441.3
20°	3394.6	3424.9	3399.3	3401.6	3390.0	3440.1	3431.9	3440.1	3431.9	3445.9	3428.4
22.5°	3311.8	3339.8	3325.8	3341.0	3338.6	3392.3	3387.6	3394.6	3381.8	3388.8	3370.1
25°	3071.6	3107.7	3103.1	3146.2	3187.0	3253.5	3248.9	3251.2	3224.4	3226.7	3205.7
27.5°	2943.3	2973.6	2956.2	2958.5	2942.2	2979.5	2981.8	3040.1	3075.1	3106.6	3092.6
30°	2837.2	2860.5	2818.5	2789.4	2747.4	2784.7	2782.4	2833.7	2895.5	2969.0	2971.3
32.5°	2722.9	2729.9	2670.4	2630.8	2615.6	2655.3	2653.0	2668.1	2714.8	2794.1	2829.0
35°	2580.7	2586.5	2513.0	2501.4	2501.4	2541.0	2531.7	2536.3	2562.0	2613.3	2636.6
37.5°	2427.9	2419.7	2377.7	2380.1	2389.4	2425.6	2418.6	2418.6	2426.7	2450.0	2420.9
40°	2253.0	2262.3	2249.5	2261.1	2269.3	2304.3	2300.8	2303.1	2299.6	2286.8	2254.1
42.5°	2097.9	2121.2	2135.2	2149.2	2150.4	2184.2	2181.8	2191.2	2173.7	2139.9	2129.4
45°	1942.8	1970.8	2009.3	2037.2	2039.6	2072.2	2072.2	2074.6	2038.4	2013.9	2009.3
47.5°	1802.8	1832.0	1871.6	1913.6	1920.6	1954.4	1954.4	1948.6	1910.1	1895.0	1879.8
50°	1662.9	1700.2	1737.5	1787.7	1791.2	1816.8	1818.0	1812.2	1794.7	1776.0	1748.0
52.5°	1530.0	1575.4	1611.6	1652.4	1654.7	1675.7	1671.1	1675.7	1678.1	1657.1	1623.3
55°	1405.2	1451.8	1483.3	1512.5	1518.3	1532.3	1523.0	1538.1	1552.1	1533.5	1505.5
57.5°	1276.9	1327.1	1353.9	1373.7	1378.4	1390.0	1380.7	1400.5	1419.2	1407.5	1388.9
60°	1161.5	1201.1	1219.8	1238.4	1239.6	1251.3	1243.1	1262.9	1283.9	1278.1	1265.3
62.5°	1042.5	1070.5	1084.5	1104.3	1098.5	1110.2	1113.7	1131.2	1146.3	1147.5	1137.0
65°	923.6	938.7	950.4	962.1	964.4	973.7	977.2	984.2	1007.5	1009.9	1002.9
67.5°	797.6	807.0	817.5	828.0	826.8	836.1	845.4	852.4	867.6	873.4	864.1
70°	670.5	682.2	688.0	692.7	691.5	700.8	709.0	714.8	728.8	732.3	724.2
72.5°	542.3	553.9	558.6	559.7	558.6	569.1	576.1	579.6	591.2	597.1	584.2
75°	417.5	432.6	435.0	432.6	431.5	440.8	444.3	450.1	458.3	459.5	450.1
77.5°	304.4	317.2	319.5	316.0	313.7	320.7	323.0	328.9	333.5	335.8	326.5
80°	204.1	216.9	215.7	214.6	211.1	215.7	219.2	221.6	225.1	225.1	218.1
82.5°	122.4	130.6	129.4	130.6	127.1	128.3	130.6	134.1	132.9	135.3	130.6
85°	59.5	63.0	63.0	63.0	61.8	63.0	64.1	66.5	64.1	66.5	63.0
87.5°	21.0	22.2	21.0	21.0	21.0	21.0	22.2	22.2	21.0	22.2	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4
2.5°	3262.8	3244.2	3262.8	3254.7	3265.2	3261.7	3262.8	3275.7	3246.5	3239.5
5°	3303.7	3283.8	3302.5	3296.7	3304.8	3301.3	3303.7	3316.5	3286.2	3278.0
7.5°	3350.3	3329.3	3348.0	3339.8	3348.0	3344.5	3345.6	3356.1	3324.7	3317.7
10°	3393.5	3371.3	3387.6	3379.5	3384.1	3380.6	3383.0	3390.0	3356.1	3348.0
12.5°	3427.3	3405.1	3421.4	3412.1	3414.4	3409.8	3408.6	3412.1	3377.1	3367.8
15°	3455.3	3433.1	3444.8	3435.4	3434.3	3427.3	3424.9	3426.1	3391.1	3381.8
17.5°	3463.4	3437.8	3444.8	3434.3	3430.8	3424.9	3422.6	3424.9	3391.1	3381.8
20°	3447.1	3416.8	3420.3	3407.4	3402.8	3398.1	3398.1	3401.6	3369.0	3363.1
22.5°	3391.1	3365.5	3373.6	3365.5	3360.8	3356.1	3348.0	3339.8	3297.8	3289.7
25°	3227.9	3210.4	3240.7	3245.4	3232.5	3208.0	3162.6	3127.6	3066.9	3059.9
27.5°	3107.7	3071.6	3035.4	2990.0	2963.1	2952.7	2959.7	2972.5	2941.0	2929.3
30°	2973.6	2895.5	2825.5	2778.9	2761.4	2759.1	2787.1	2820.9	2826.7	2829.0
32.5°	2806.9	2707.8	2654.1	2639.0	2627.3	2623.8	2633.1	2671.6	2696.1	2718.3
35°	2618.0	2549.2	2521.2	2522.3	2510.7	2506.0	2500.2	2523.5	2549.2	2576.0
37.5°	2441.9	2411.6	2403.4	2408.1	2395.2	2388.2	2381.2	2387.1	2395.2	2404.6
40°	2276.3	2283.3	2288.0	2291.5	2275.1	2270.5	2264.6	2262.3	2248.3	2226.2
42.5°	2135.2	2153.9	2174.8	2174.8	2157.3	2155.0	2156.2	2149.2	2107.2	2076.9
45°	2013.9	2020.9	2057.1	2064.1	2048.9	2045.4	2046.6	2024.4	1957.9	1927.6
47.5°	1895.0	1898.5	1931.1	1947.4	1931.1	1927.6	1931.1	1884.5	1812.2	1797.0
50°	1774.9	1784.2	1798.2	1813.3	1798.2	1797.0	1793.5	1749.2	1678.1	1669.9
52.5°	1653.6	1672.2	1665.2	1668.7	1659.4	1660.6	1664.1	1618.6	1553.3	1539.3
55°	1530.0	1547.5	1530.0	1520.6	1517.1	1520.6	1527.6	1485.7	1434.3	1411.0
57.5°	1407.5	1418.0	1399.4	1380.7	1374.9	1383.0	1388.9	1353.9	1309.6	1292.1
60°	1280.4	1278.1	1262.9	1245.4	1233.8	1243.1	1252.4	1220.9	1181.3	1170.8
62.5°	1146.3	1144.0	1125.3	1110.2	1098.5	1105.5	1114.8	1084.5	1057.7	1048.4
65°	1008.7	1006.4	986.6	974.9	964.4	966.7	977.2	949.2	932.9	922.4
67.5°	875.8	867.6	847.8	840.8	828.0	832.6	839.6	817.5	802.3	793.0
70°	735.8	728.8	711.3	704.3	693.9	696.2	703.2	689.2	672.9	667.0
72.5°	593.6	592.4	576.1	566.7	560.9	562.1	567.9	560.9	545.8	541.1
75°	456.0	459.5	446.6	438.5	432.6	432.6	439.6	440.8	424.5	418.6
77.5°	335.8	335.8	325.4	326.5	317.2	317.2	321.9	326.5	309.0	305.5
80°	225.1	223.9	220.4	216.9	212.2	213.4	216.9	222.7	208.7	209.9
82.5°	132.9	132.9	132.9	130.6	127.1	125.9	130.6	135.3	125.9	125.9
85°	65.3	64.1	64.1	64.1	61.8	60.6	64.1	66.5	60.6	61.8
87.5°	22.2	21.0	21.0	22.2	21.0	21.0	21.0	21.0	19.8	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)