

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: P250151

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120850 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12527.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

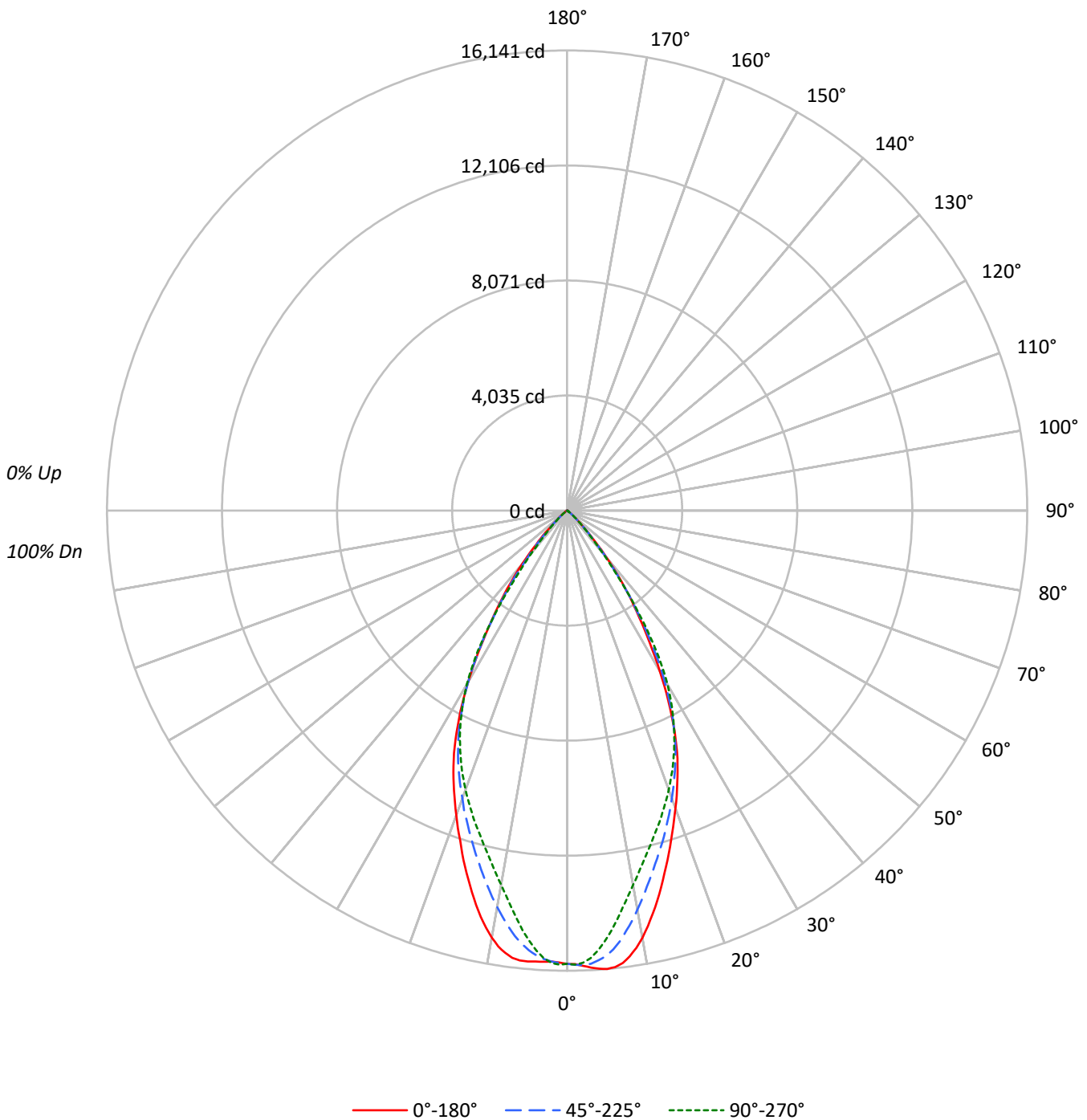
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66				66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55				55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52				52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	490233	490233	490233
5°	499643	469373	491505
10°	476372	417552	476249
15°	420654	376602	427812
20°	364539	341834	373163
25°	308003	302743	319313
30°	231493	250625	247321
35°	154962	163839	168059
40°	86820	74526	99580
45°	34892	30679	41468
50°	12051	11681	14277
55°	3328	3951	3742
60°	1906	2387	2146
65°	1693	1408	1124
70°	0	1046	703
75°	0	0	0
80°	0	0	693
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1443.2	11.5
10°-20°	3490.6	27.9
20°-30°	4091.2	32.7
30°-40°	2691.8	21.5
40°-50°	702.4	5.6
50°-60°	86.4	0.7
60°-70°	17.9	0.1
70°-80°	3.3	0.0
80°-90°	0.1	0.0
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°	9025.0	72.0
0°-40°	11716.8	93.5
0°-60°	12505.6	99.8
0°-90°	12527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12527.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15898	15898	15898	15898	15898	
5°	16141	15681	15164	15476	15878	###
15°	13177	12431	11797	12431	13401	3673
25°	9052	8964	8898	9049	9385	4081
35°	4116	4209	4352	4395	4464	2577
45°	800	754	704	816	951	717
55°	62	66	74	74	70	82
65°	23	19	19	15	15	16
75°	0	4	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	15897.9	15897.9	15897.9	15897.9	15897.9	15897.9	15897.9	15897.9	15897.9
1°	15909.4	15932.7	15940.3	15963.6	15928.8	15905.6	15874.7	15851.4	15855.3
2°	15979.0	15990.7	15948.1	15932.7	15870.8	15851.4	15828.3	15824.4	15828.3
3°	16052.5	16029.2	15917.2	15812.9	15720.1	15708.4	15751.0	15812.9	15847.6
4°	16110.5	16048.6	15812.9	15619.5	15472.7	15461.1	15631.2	15789.6	15855.3
5°	16141.4	16029.2	15681.4	15356.7	15163.5	15236.9	15476.5	15758.7	15878.5
6°	16098.9	15932.7	15480.4	15047.5	14827.2	14923.8	15275.6	15685.3	15863.1
7°	15990.7	15778.1	15221.5	14711.2	14440.6	14591.4	15039.8	15561.6	15805.1
8°	15789.6	15534.5	14892.9	14320.8	14054.1	14224.2	14749.9	15383.8	15666.0
9°	15526.8	15244.6	14568.2	13965.2	13679.2	13880.2	14448.4	15148.0	15472.7
10°	15213.7	14912.2	14208.7	13594.2	13335.2	13524.6	14123.7	14873.5	15209.8
11°	14846.5	14556.6	13849.3	13246.3	12998.9	13184.5	13799.0	14545.1	14908.3
12°	14448.4	14181.7	13482.1	12910.0	12678.1	12855.9	13451.2	14204.9	14564.3
13°	14050.2	13783.5	13126.5	12585.3	12372.7	12542.8	13111.0	13833.8	14193.2
14°	13621.2	13377.7	12770.9	12276.1	12082.8	12245.1	12763.1	13458.8	13799.0
15°	13176.7	12983.4	12430.7	11978.4	11796.8	11951.4	12430.7	13072.3	13400.9
16°	12759.3	12581.5	12102.1	11684.7	11534.0	11657.6	12094.5	12685.9	12998.9
17°	12334.0	12171.7	11773.6	11394.8	11259.6	11379.4	11750.4	12295.5	12577.6
18°	11908.9	11773.6	11414.2	11089.5	10969.7	11077.9	11410.3	11901.2	12156.2
19°	11514.6	11390.9	11085.6	10811.2	10703.0	10799.5	11112.7	11522.4	11777.5
20°	11108.8	11008.3	10741.6	10517.4	10416.9	10505.8	10749.3	11147.5	11371.6
21°	10718.4	10629.5	10397.6	10208.1	10127.0	10200.5	10424.6	10784.1	10981.2
22°	10312.6	10262.3	10053.6	9895.1	9841.0	9887.3	10092.2	10401.5	10587.0
23°	9914.4	9868.0	9709.5	9578.2	9531.7	9578.2	9759.8	10038.1	10204.4
24°	9512.4	9462.2	9346.3	9261.1	9222.6	9261.1	9415.8	9651.6	9810.1
25°	9052.5	9044.8	8963.6	8917.2	8897.9	8940.3	9048.6	9253.5	9384.9
26°	8611.8	8588.6	8565.4	8557.7	8561.6	8584.7	8673.6	8828.3	8932.7
27°	8070.7	8105.5	8140.2	8186.7	8202.1	8221.5	8263.9	8376.0	8453.4
28°	7552.7	7618.4	7703.5	7796.2	7838.8	7838.8	7842.6	7904.4	7970.2
29°	7038.7	7108.2	7243.5	7382.7	7440.6	7432.9	7402.0	7429.0	7467.7
30°	6501.4	6590.3	6772.0	6953.7	7038.7	7007.8	6949.8	6922.7	6945.9
31°	5975.7	6064.6	6265.6	6462.7	6574.8	6540.1	6439.5	6420.2	6431.8
32°	5473.3	5562.2	5747.6	5956.4	6083.9	6037.6	5933.2	5902.3	5906.1
33°	4986.2	5055.8	5225.8	5419.2	5523.5	5511.8	5426.8	5388.2	5392.0
34°	4526.3	4584.2	4711.7	4858.7	4959.1	4955.3	4893.4	4897.3	4908.9
35°	4116.5	4147.5	4209.2	4290.5	4352.3	4387.0	4394.8	4425.7	4464.4
37.5°	3111.6	3123.1	3049.7	2968.5	2953.1	3053.6	3227.5	3378.3	3436.3
40°	2156.8	2129.8	2037.0	1894.0	1851.4	1963.6	2183.9	2396.5	2473.8
42.5°	1341.3	1329.7	1271.7	1163.5	1124.8	1190.5	1356.7	1519.1	1596.4
45°	800.1	784.6	753.7	711.2	703.5	730.5	815.5	908.3	950.9
47.5°	459.9	456.1	436.8	421.3	417.5	436.8	475.4	529.5	541.2
50°	251.2	247.4	243.5	243.5	243.5	255.1	274.5	289.9	297.6
52.5°	123.7	127.6	123.7	127.6	131.5	139.1	135.2	150.8	150.8
55°	61.9	58.0	65.7	73.5	73.5	73.5	73.5	73.5	69.6
57.5°	46.3	50.2	42.6	46.3	42.6	42.6	38.7	42.6	46.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	30.9	27.0	30.9	34.8	38.7	34.8	27.0	30.9	34.8
62.5°	15.4	15.4	15.4	23.2	34.8	27.0	23.2	19.3	19.3
65°	23.2	15.4	19.3	23.2	19.3	19.3	15.4	19.3	15.4
67.5°	11.6	19.3	11.6	7.8	11.6	15.4	11.6	7.8	7.8
70°	0.0	3.9	3.9	11.6	11.6	11.6	11.6	7.8	7.8
72.5°	3.9	3.9	3.9	7.8	3.9	7.8	3.9	3.9	7.8
75°	0.0	0.0	3.9	3.9	0.0	3.9	0.0	0.0	0.0
77.5°	3.9	0.0	3.9	3.9	0.0	0.0	0.0	3.9	0.0
80°	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	3.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)