

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: P247385

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120827 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12025.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

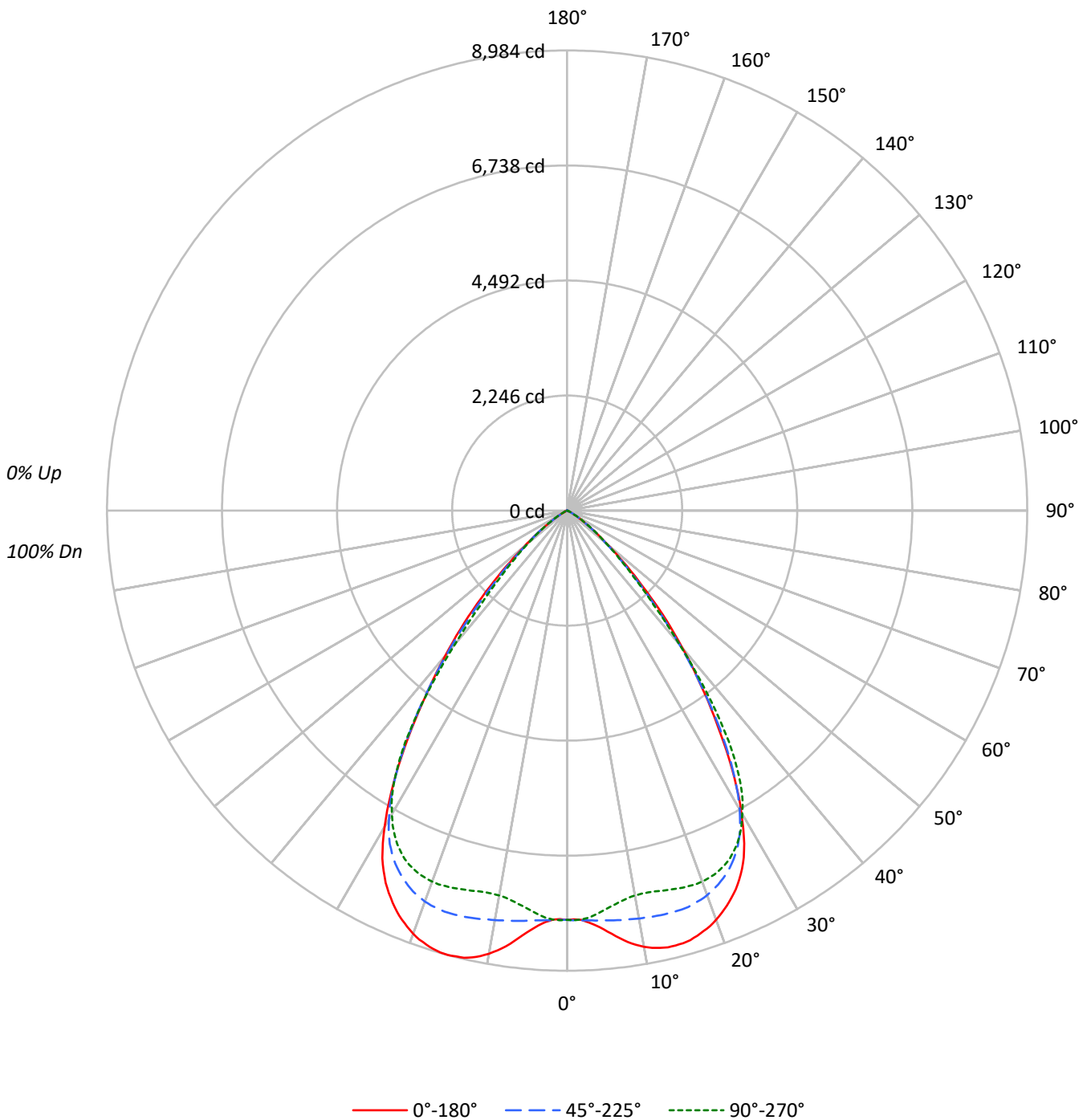
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76					76			
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70					70			
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64					64			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	246475	246475	246475
5°	254040	243005	254461
10°	270799	238904	275051
15°	279128	244765	286822
20°	279121	252937	288591
25°	270570	255320	280277
30°	242172	243618	253776
35°	192881	207325	203621
40°	140921	137093	148984
45°	90027	80258	97876
50°	48702	47723	52290
55°	25004	25924	25004
60°	10885	10885	7956
65°	2233	2977	2481
70°	1524	2146	2443
75°	0	1215	0
80°	604	604	2415
85°	0	1203	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.4	6.4
10°-20°	2318.0	19.3
20°-30°	3528.1	29.3
30°-40°	3283.3	27.3
40°-50°	1598.0	13.3
50°-60°	455.3	3.8
60°-70°	59.5	0.5
70°-80°	9.4	0.1
80°-90°	2.9	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°	6616.6	55.0
0°-40°	9899.9	82.3
0°-60°	11953.2	99.4
0°-90°	12025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12025.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7993	7993	7993	7993	7993	
5°	8207	8027	7850	8034	8221	799
15°	8744	8108	7667	8187	8984	2460
25°	7952	7606	7504	7772	8238	3610
35°	5124	5195	5508	5450	5409	3186
45°	2064	1912	1840	2061	2244	1632
55°	465	465	482	472	465	456
65°	31	37	41	37	34	58
75°	0	3	10	3	0	6
85°	0	3	3	7	0	1
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°	7993.0	7993.0	7993.0	7993.0	7993.0	7993.0	7993.0	7993.0	7993.0
1°	7982.8	7993.0	7999.9	7996.5	7999.9	7996.5	7989.7	7976.1	7976.1
2°	7996.5	8010.1	8006.6	7999.9	7989.7	7989.7	8010.1	7982.8	7989.7
3°	8050.7	8050.7	8010.1	7972.8	7959.1	7972.8	8006.6	8027.0	8044.0
4°	8118.7	8105.1	8023.6	7938.8	7911.5	7945.5	8020.3	8084.7	8118.7
5°	8207.0	8166.2	8027.0	7898.0	7850.5	7901.3	8033.8	8156.0	8220.6
6°	8308.9	8247.7	8047.4	7853.8	7792.7	7864.0	8054.2	8241.0	8339.3
7°	8410.8	8312.2	8057.6	7819.9	7741.7	7840.3	8071.1	8336.0	8465.0
8°	8505.8	8373.3	8067.8	7789.4	7694.2	7796.1	8084.7	8420.8	8590.6
9°	8583.9	8431.0	8074.5	7765.6	7653.5	7769.0	8101.8	8495.6	8695.9
10°	8648.4	8475.2	8088.2	7751.9	7629.8	7755.4	8118.7	8560.2	8784.2
11°	8699.4	8505.8	8091.6	7745.2	7619.6	7745.2	8132.2	8624.6	8859.0
12°	8729.8	8532.9	8101.8	7748.6	7622.9	7755.4	8152.6	8651.9	8920.1
13°	8750.3	8543.1	8108.5	7758.8	7629.8	7762.1	8166.2	8675.6	8960.7
14°	8750.3	8536.4	8108.5	7769.0	7650.2	7775.7	8176.4	8692.5	8970.9
15°	8743.5	8532.9	8108.5	7785.9	7667.1	7789.4	8186.6	8702.7	8984.5
16°	8723.1	8512.5	8105.1	7796.1	7684.0	7802.9	8189.9	8695.9	8974.4
17°	8682.3	8502.5	8091.6	7806.3	7701.1	7816.5	8189.9	8679.0	8950.5
18°	8628.0	8431.0	8057.6	7796.1	7704.4	7813.1	8169.7	8634.8	8906.5
19°	8580.4	8390.4	8033.8	7789.4	7718.0	7823.3	8156.0	8604.2	8859.0
20°	8505.8	8322.4	7993.0	7769.0	7707.9	7802.9	8122.2	8550.0	8794.4
21°	8414.1	8244.3	7935.3	7735.0	7690.9	7775.7	8074.5	8475.2	8706.1
22°	8322.4	8156.0	7874.2	7701.1	7663.7	7751.9	8023.6	8397.1	8614.4
23°	8213.7	8057.6	7796.1	7643.3	7622.9	7697.7	7952.3	8312.2	8505.8
24°	8091.6	7942.1	7711.3	7578.8	7572.1	7640.0	7870.9	8200.1	8376.8
25°	7952.3	7819.9	7606.0	7497.3	7504.1	7561.9	7772.3	8074.5	8237.6
26°	7785.9	7663.7	7483.7	7398.9	7409.1	7466.8	7660.2	7928.6	8084.7
27°	7599.2	7487.1	7341.2	7279.9	7307.2	7358.1	7524.5	7769.0	7894.6
28°	7364.9	7276.6	7171.4	7144.2	7178.2	7235.9	7375.1	7575.4	7687.5
29°	7093.2	7045.7	6964.2	6977.8	7025.3	7072.8	7188.3	7334.3	7422.6
30°	6801.3	6780.9	6733.3	6787.7	6841.9	6882.7	6960.9	7059.3	7127.2
31°	6502.5	6478.7	6485.4	6573.7	6655.2	6682.3	6726.5	6774.0	6825.0
32°	6166.3	6159.5	6186.6	6315.7	6421.0	6434.5	6437.9	6451.4	6478.7
33°	5823.3	5813.1	5867.5	6027.1	6145.9	6156.1	6128.9	6115.3	6135.7
34°	5466.8	5466.8	5538.1	5704.5	5843.8	5853.8	5799.6	5792.7	5772.3
35°	5123.8	5113.6	5195.1	5351.4	5507.5	5511.0	5449.8	5412.4	5409.1
37.5°	4274.9	4258.0	4285.1	4366.6	4482.0	4543.3	4536.4	4522.9	4512.7
40°	3500.8	3460.1	3405.7	3371.8	3405.7	3531.4	3640.0	3691.0	3701.1
42.5°	2770.8	2713.1	2597.6	2502.4	2516.1	2631.6	2797.9	2913.3	2971.1
45°	2064.4	2006.7	1911.7	1840.4	1840.4	1921.9	2061.1	2179.9	2244.4
47.5°	1473.7	1436.3	1382.0	1351.4	1371.8	1405.7	1483.9	1572.2	1599.3
50°	1015.2	1005.0	974.6	974.6	994.8	1022.1	1035.6	1079.8	1090.0
52.5°	709.7	692.7	696.0	699.5	716.4	719.9	740.2	730.0	747.0
55°	465.1	465.1	465.1	475.3	482.2	482.2	472.0	465.1	465.1
57.5°	295.5	288.6	292.0	298.8	298.8	288.6	271.7	268.2	251.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	176.5	176.5	180.0	180.0	176.5	166.3	149.4	135.8	129.0
62.5°	91.7	95.0	95.0	112.1	95.0	84.8	78.1	61.1	57.7
65°	30.6	37.3	37.3	37.3	40.8	37.3	37.3	34.0	34.0
67.5°	20.4	23.8	23.8	27.1	27.1	27.1	27.1	34.0	23.8
70°	16.9	16.9	20.4	23.8	23.8	27.1	20.4	16.9	27.1
72.5°	10.2	13.6	10.2	16.9	13.6	13.6	13.6	13.6	13.6
75°	0.0	6.8	3.4	0.0	10.2	6.8	3.4	6.8	0.0
77.5°	3.4	3.4	3.4	3.4	6.8	6.8	6.8	6.8	3.4
80°	3.4	3.4	6.8	3.4	3.4	6.8	0.0	0.0	13.6
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	0.0	3.4	3.4
85°	0.0	3.4	3.4	3.4	3.4	3.4	6.8	6.8	0.0
87.5°	0.0	3.4	0.0	3.4	0.0	0.0	0.0	6.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)