

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: P247400

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247400
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: LSR8B100D010 EC8B100850 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11453.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

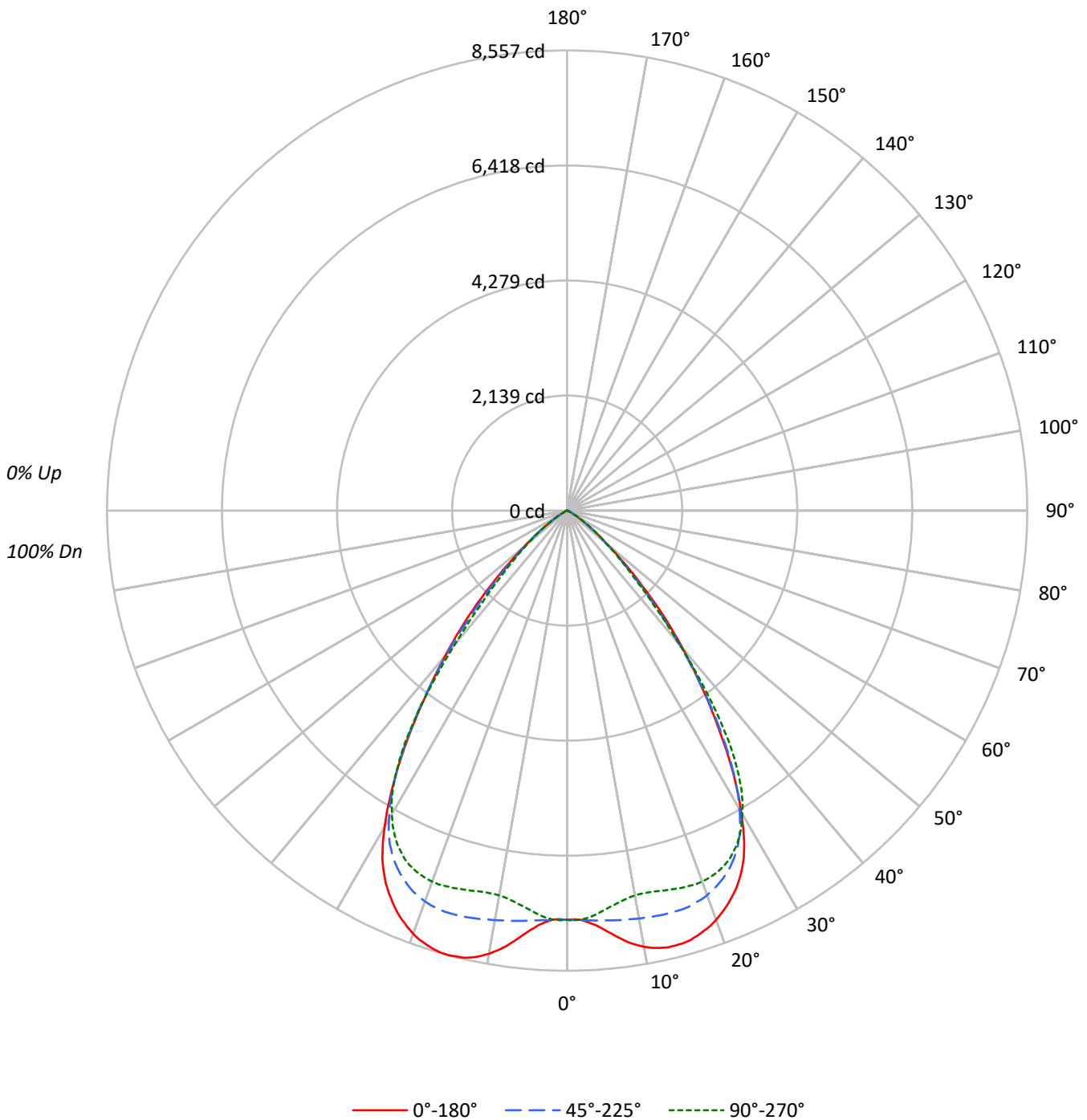
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	234751	234751	234751
5°	241956	231444	242355
10°	257917	227538	261969
15°	265851	233123	273178
20°	265843	240907	274864
25°	257702	243177	266946
30°	230650	232031	241705
35°	183707	197463	193935
40°	134215	130572	141895
45°	85744	76438	93223
50°	46385	45454	49805
55°	23816	24687	23816
60°	10367	10367	7580
65°	2131	2838	2357
70°	1452	2038	2326
75°	0	1156	0
80°	568	568	2291
85°	0	1132	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.8	6.4
10°-20°	2207.7	19.3
20°-30°	3360.3	29.3
30°-40°	3127.2	27.3
40°-50°	1522.0	13.3
50°-60°	433.7	3.8
60°-70°	56.7	0.5
70°-80°	9.0	0.1
80°-90°	2.7	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°	6301.8	55.0
0°-40°	9429.0	82.3
0°-60°	11384.6	99.4
0°-90°	11453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11453.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7613	7613	7613	7613	7613	
5°	7817	7645	7477	7652	7830	761
15°	8328	7723	7302	7797	8557	2343
25°	7574	7244	7147	7403	7846	3438
35°	4880	4948	5246	5190	5152	3034
45°	1966	1821	1753	1963	2138	1554
55°	443	443	459	450	443	435
65°	29	36	39	36	32	56
75°	0	3	10	3	0	6
85°	0	3	3	6	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°	7612.8	7612.8	7612.8	7612.8	7612.8	7612.8	7612.8	7612.8	7612.8
1°	7603.1	7612.8	7619.3	7616.1	7619.3	7616.1	7609.6	7596.7	7596.7
2°	7616.1	7629.0	7625.7	7619.3	7609.6	7609.6	7629.0	7603.1	7609.6
3°	7667.8	7667.8	7629.0	7593.5	7580.5	7593.5	7625.7	7645.2	7661.4
4°	7732.5	7719.6	7642.0	7561.2	7535.2	7567.6	7638.8	7700.1	7732.5
5°	7816.6	7777.7	7645.2	7522.3	7477.0	7525.5	7651.7	7768.0	7829.5
6°	7913.6	7855.3	7664.6	7480.2	7422.1	7489.9	7671.1	7849.0	7942.7
7°	8010.7	7916.8	7674.3	7447.9	7373.5	7467.3	7687.2	7939.5	8062.3
8°	8101.2	7975.0	7684.0	7418.9	7328.2	7425.3	7700.1	8020.3	8182.0
9°	8175.6	8030.0	7690.4	7396.2	7289.5	7399.4	7716.4	8091.5	8282.2
10°	8237.0	8072.1	7703.5	7383.2	7266.8	7386.5	7732.5	8153.0	8366.4
11°	8285.6	8101.2	7706.7	7376.8	7257.1	7376.8	7745.4	8214.4	8437.6
12°	8314.6	8127.0	7716.4	7380.0	7260.3	7386.5	7764.8	8240.3	8495.8
13°	8334.0	8136.7	7722.8	7389.7	7266.8	7392.9	7777.7	8262.9	8534.5
14°	8334.0	8130.4	7722.8	7399.4	7286.3	7405.8	7787.5	8279.0	8544.2
15°	8327.6	8127.0	7722.8	7415.5	7302.4	7418.9	7797.2	8288.8	8557.1
16°	8308.2	8107.6	7719.6	7425.3	7318.5	7431.8	7800.4	8282.2	8547.5
17°	8269.3	8098.0	7706.7	7435.0	7334.7	7444.7	7800.4	8266.1	8524.8
18°	8217.5	8030.0	7674.3	7425.3	7337.9	7441.5	7781.1	8224.1	8482.8
19°	8172.3	7991.3	7651.7	7418.9	7350.8	7451.2	7768.0	8194.9	8437.6
20°	8101.2	7926.6	7612.8	7399.4	7341.3	7431.8	7735.8	8143.3	8376.1
21°	8013.9	7852.1	7557.8	7367.1	7325.0	7405.8	7690.4	8072.1	8292.0
22°	7926.6	7768.0	7499.7	7334.7	7299.2	7383.2	7642.0	7997.6	8204.6
23°	7823.0	7674.3	7425.3	7279.8	7260.3	7331.5	7574.1	7916.8	8101.2
24°	7706.7	7564.4	7344.5	7218.3	7211.9	7276.6	7496.5	7810.1	7978.3
25°	7574.1	7447.9	7244.2	7140.7	7147.2	7202.2	7402.6	7690.4	7845.8
26°	7415.5	7299.2	7127.7	7046.9	7056.7	7111.6	7295.9	7551.4	7700.1
27°	7237.7	7130.9	6992.0	6933.7	6959.6	7008.1	7166.6	7399.4	7519.1
28°	7014.6	6930.5	6830.2	6804.4	6836.8	6891.7	7024.3	7215.1	7321.8
29°	6755.8	6710.6	6633.0	6645.9	6691.1	6736.4	6846.3	6985.4	7069.6
30°	6477.7	6458.3	6413.1	6464.8	6516.5	6555.3	6629.8	6723.5	6788.2
31°	6193.1	6170.5	6176.9	6261.0	6338.6	6364.5	6406.5	6451.8	6500.4
32°	5873.0	5866.5	5892.3	6015.3	6115.5	6128.5	6131.6	6144.6	6170.5
33°	5546.3	5536.6	5588.4	5740.4	5853.6	5863.3	5837.3	5824.4	5843.9
34°	5206.8	5206.8	5274.7	5433.2	5565.8	5575.4	5523.7	5517.2	5497.8
35°	4880.1	4870.4	4948.0	5096.8	5245.5	5248.8	5190.5	5155.0	5151.8
37.5°	4071.6	4055.5	4081.3	4158.9	4268.8	4327.1	4320.6	4307.7	4298.0
40°	3334.2	3295.5	3243.7	3211.4	3243.7	3363.4	3466.8	3515.4	3525.0
42.5°	2639.0	2584.0	2474.1	2383.4	2396.5	2506.4	2664.8	2774.8	2829.7
45°	1966.2	1911.3	1820.7	1752.8	1752.8	1830.5	1963.0	2076.2	2137.7
47.5°	1403.6	1368.0	1316.2	1287.1	1306.5	1338.9	1413.3	1497.4	1523.2
50°	966.9	957.2	928.2	928.2	947.5	973.5	986.4	1028.4	1038.2
52.5°	676.0	659.7	662.9	666.2	682.3	685.7	705.0	695.3	711.5
55°	443.0	443.0	443.0	452.7	459.2	459.2	449.5	443.0	443.0
57.5°	281.4	274.9	278.1	284.6	284.6	274.9	258.8	255.4	239.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	168.1	168.1	171.5	171.5	168.1	158.4	142.3	129.4	122.9
62.5°	87.3	90.5	90.5	106.8	90.5	80.8	74.4	58.2	55.0
65°	29.2	35.5	35.5	35.5	38.9	35.5	35.5	32.3	32.3
67.5°	19.4	22.6	22.6	25.8	25.8	25.8	25.8	32.3	22.6
70°	16.1	16.1	19.4	22.6	22.6	25.8	19.4	16.1	25.8
72.5°	9.7	12.9	9.7	16.1	12.9	12.9	12.9	12.9	12.9
75°	0.0	6.5	3.2	0.0	9.7	6.5	3.2	6.5	0.0
77.5°	3.2	3.2	3.2	3.2	6.5	6.5	6.5	6.5	3.2
80°	3.2	3.2	6.5	3.2	3.2	6.5	0.0	0.0	12.9
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	0.0	3.2	3.2
85°	0.0	3.2	3.2	3.2	3.2	3.2	6.5	6.5	0.0
87.5°	0.0	3.2	0.0	3.2	0.0	0.0	0.0	6.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)