

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: P250131

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250131
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: LSR8B150D010 EC8B150830 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15553.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

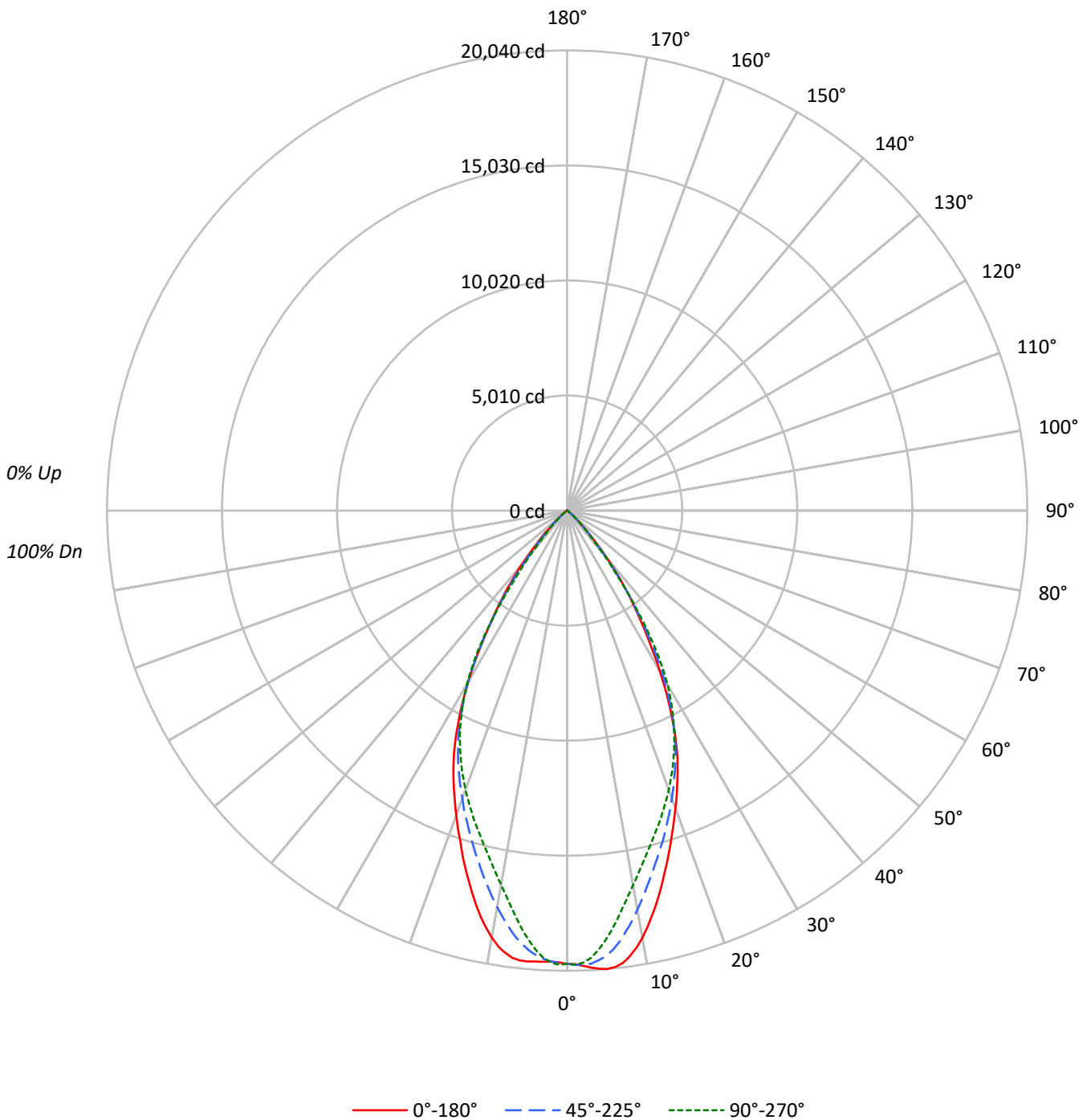
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	608650	608650	608650
5°	620336	582754	610232
10°	591443	518417	591293
15°	522269	467576	531153
20°	452595	424407	463303
25°	382404	375871	396442
30°	287414	311163	307062
35°	192396	203418	208654
40°	107792	92532	123632
45°	43321	38088	51485
50°	14963	14507	17726
55°	4129	4903	4645
60°	2368	2960	2664
65°	2101	1751	1394
70°	0	1298	866
75°	0	0	0
80°	0	0	852
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1791.8	11.5
10°-20°	4333.8	27.9
20°-30°	5079.4	32.7
30°-40°	3342.0	21.5
40°-50°	872.1	5.6
50°-60°	107.3	0.7
60°-70°	22.3	0.1
70°-80°	4.1	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°	11205.1	72.0
0°-40°	14547.1	93.5
0°-60°	15526.5	99.8
0°-90°	15553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15553.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19738	19738	19738	19738	19738	
5°	20040	19469	18826	19215	19714	###
15°	16360	15433	14646	15433	16638	4560
25°	11239	11129	11047	11234	11652	5067
35°	5111	5226	5404	5456	5543	3200
45°	993	936	873	1012	1181	890
55°	77	82	91	91	86	102
65°	29	24	24	19	19	20
75°	0	5	0	0	0	3
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°	19738.1	19738.1	19738.1	19738.1	19738.1	19738.1	19738.1	19738.1	19738.1
1°	19752.5	19781.4	19790.9	19819.8	19776.5	19747.8	19709.4	19680.5	19685.3
2°	19838.9	19853.3	19800.5	19781.4	19704.6	19680.5	19651.7	19646.9	19651.7
3°	19930.1	19901.2	19762.1	19632.6	19517.4	19502.9	19555.8	19632.6	19675.7
4°	20002.1	19925.3	19632.6	19392.6	19210.2	19195.9	19407.0	19603.7	19685.3
5°	20040.5	19901.2	19469.4	19066.3	18826.4	18917.5	19215.0	19565.3	19714.1
6°	19987.7	19781.4	19219.8	18682.4	18408.8	18528.8	18965.5	19474.2	19694.9
7°	19853.3	19589.4	18898.3	18264.8	17928.9	18116.1	18672.8	19320.6	19623.0
8°	19603.7	19287.0	18490.4	17780.1	17449.0	17660.1	18312.9	19099.8	19450.2
9°	19277.4	18927.1	18087.3	17338.6	16983.5	17233.1	17938.5	18807.1	19210.2
10°	18888.7	18514.4	17641.0	16878.0	16556.5	16791.5	17535.4	18466.3	18883.9
11°	18432.8	18072.9	17194.7	16446.1	16138.9	16369.3	17132.3	18058.5	18509.6
12°	17938.5	17607.4	16738.8	16028.5	15740.6	15961.4	16700.4	17636.2	18082.5
13°	17444.2	17113.0	16297.3	15625.4	15361.5	15572.6	16278.1	17175.5	17621.7
14°	16911.5	16609.2	15855.8	15241.5	15001.6	15203.1	15846.2	16709.9	17132.3
15°	16359.7	16119.7	15433.4	14871.9	14646.5	14838.3	15433.4	16230.0	16638.0
16°	15841.4	15620.6	15025.5	14507.2	14320.1	14473.6	15016.0	15750.2	16138.9
17°	15313.4	15111.9	14617.6	14147.3	13979.4	14128.2	14588.8	15265.5	15615.8
18°	14785.6	14617.6	14171.4	13768.3	13619.5	13753.8	14166.6	14776.0	15092.7
19°	14296.1	14142.5	13763.4	13422.7	13288.4	13408.2	13797.0	14305.7	14622.4
20°	13792.2	13667.4	13336.3	13058.0	12933.2	13043.5	13345.9	13840.2	14118.5
21°	13307.5	13197.1	12909.2	12674.0	12573.3	12664.5	12942.8	13389.1	13633.8
22°	12803.6	12741.3	12482.1	12285.3	12218.2	12275.7	12530.0	12914.0	13144.4
23°	12309.3	12251.8	12055.0	11891.9	11834.2	11891.9	12117.4	12462.9	12669.3
24°	11810.2	11747.9	11603.9	11498.3	11450.3	11498.3	11690.2	11983.0	12179.8
25°	11239.2	11229.6	11128.8	11071.2	11047.2	11100.0	11234.4	11488.7	11651.8
26°	10692.0	10663.3	10634.5	10624.9	10629.7	10658.4	10768.8	10960.8	11090.4
27°	10020.3	10063.5	10106.6	10164.2	10183.4	10207.4	10260.1	10399.3	10495.3
28°	9377.1	9458.7	9564.3	9679.5	9732.3	9732.3	9737.0	9813.8	9895.4
29°	8738.9	8825.2	8993.3	9166.0	9238.0	9228.4	9190.0	9223.5	9271.6
30°	8071.9	8182.2	8407.8	8633.4	8738.9	8700.5	8628.6	8595.0	8623.7
31°	7419.2	7529.6	7779.1	8023.8	8163.0	8119.9	7995.1	7971.1	7985.4
32°	6795.4	6905.7	7136.0	7395.2	7553.6	7496.0	7366.4	7328.0	7332.8
33°	6190.6	6277.1	6488.2	6728.2	6857.7	6843.3	6737.7	6689.8	6694.5
34°	5619.6	5691.6	5849.9	6032.3	6157.1	6152.2	6075.4	6080.3	6094.7
35°	5110.9	5149.3	5226.0	5326.9	5403.7	5446.8	5456.4	5494.8	5542.8
37.5°	3863.2	3877.5	3786.4	3685.5	3666.4	3791.2	4007.2	4194.3	4266.3
40°	2677.8	2644.2	2529.0	2351.5	2298.7	2437.9	2711.4	2975.4	3071.3
42.5°	1665.3	1650.8	1578.9	1444.5	1396.5	1478.1	1684.4	1886.0	1982.0
45°	993.4	974.1	935.7	883.0	873.4	907.0	1012.5	1127.7	1180.6
47.5°	571.0	566.3	542.3	523.1	518.3	542.3	590.3	657.4	671.9
50°	311.9	307.2	302.4	302.4	302.4	316.7	340.8	359.9	369.5
52.5°	153.6	158.4	153.6	158.4	163.2	172.7	167.9	187.2	187.2
55°	76.8	72.0	81.6	91.2	91.2	91.2	91.2	91.2	86.4
57.5°	57.5	62.4	52.8	57.5	52.8	52.8	48.0	52.8	57.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	38.4	33.6	38.4	43.2	48.0	43.2	33.6	38.4	43.2
62.5°	19.1	19.1	19.1	28.8	43.2	33.6	28.8	24.0	24.0
65°	28.8	19.1	24.0	28.8	24.0	24.0	19.1	24.0	19.1
67.5°	14.4	24.0	14.4	9.6	14.4	19.1	14.4	9.6	9.6
70°	0.0	4.8	4.8	14.4	14.4	14.4	14.4	9.6	9.6
72.5°	4.8	4.8	4.8	9.6	4.8	9.6	4.8	4.8	9.6
75°	0.0	0.0	4.8	4.8	0.0	4.8	0.0	0.0	0.0
77.5°	4.8	0.0	4.8	4.8	0.0	0.0	0.0	4.8	0.0
80°	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	4.8
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)