

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: P250201

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250201
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 EC8B150930 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13355.6 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

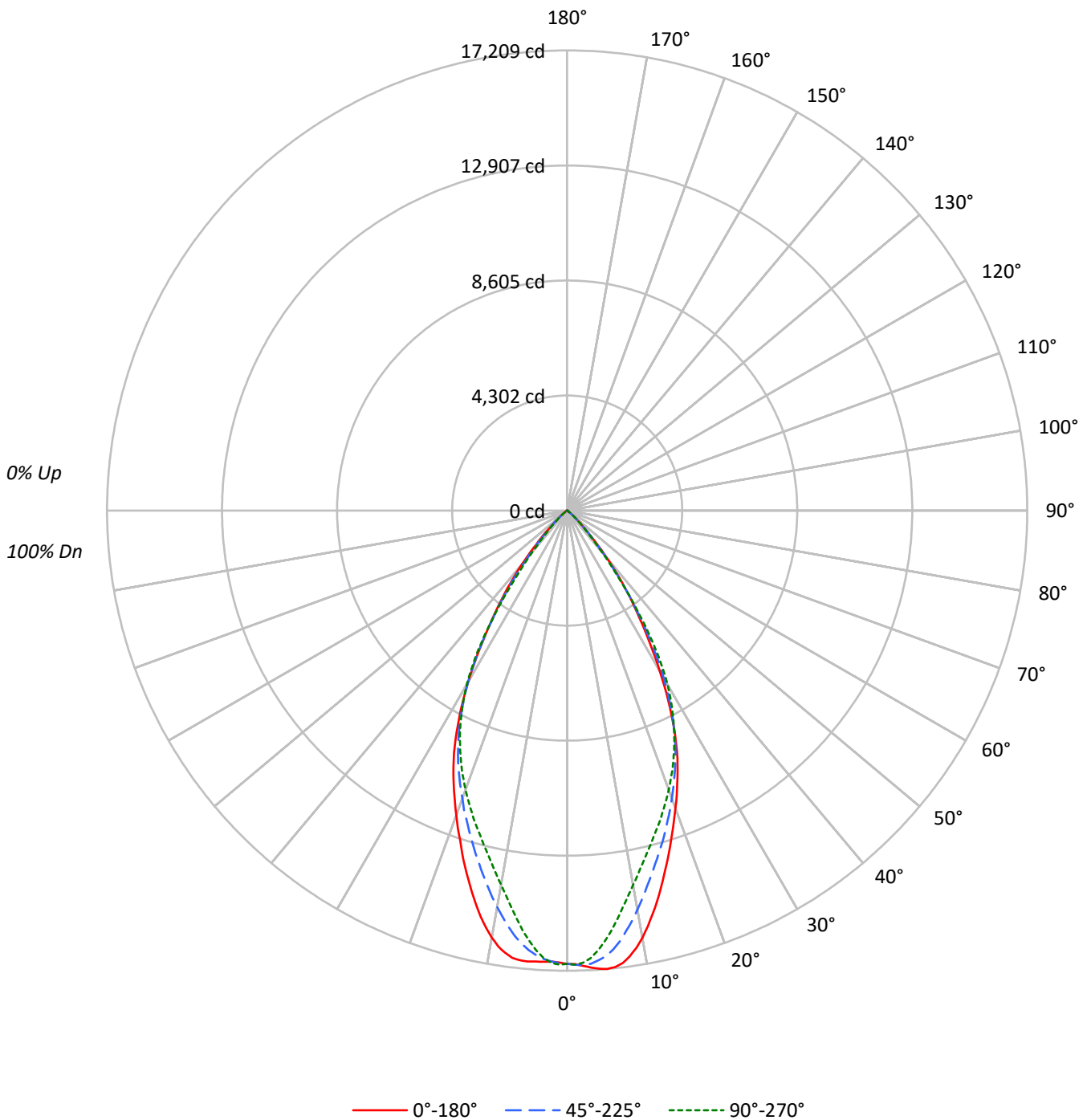
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1538.7	11.5
10°-20°	3721.5	27.9
20°-30°	4361.8	32.7
30°-40°	2869.8	21.5
40°-50°	748.9	5.6
50°-60°	92.1	0.7
60°-70°	19.1	0.1
70°-80°	3.5	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°	9622.0	72.0
0°-40°	12491.8	93.5
0°-60°	13332.8	99.8
0°-90°	13355.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13355.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16949	16949	16949	16949	16949	
5°	17209	16719	16166	16500	16929	###
15°	14048	13253	12577	13253	14287	3916
25°	9651	9556	9486	9647	10006	4351
35°	4389	4488	4640	4685	4760	2748
45°	853	804	750	869	1014	765
55°	66	70	78	78	74	87
65°	25	21	21	16	16	17
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°	16949.4	16949.4	16949.4	16949.4	16949.4	16949.4	16949.4	16949.4	16949.4
1°	16961.7	16986.5	16994.7	17019.5	16982.4	16957.7	16924.7	16900.0	16904.1
2°	17035.9	17048.4	17003.0	16986.5	16920.6	16900.0	16875.2	16871.0	16875.2
3°	17114.3	17089.5	16970.0	16858.8	16759.8	16747.5	16792.8	16858.8	16895.8
4°	17176.1	17110.2	16858.8	16652.7	16496.1	16483.7	16665.1	16833.9	16904.1
5°	17209.0	17089.5	16718.6	16372.4	16166.5	16244.7	16500.2	16801.0	16928.8
6°	17163.7	16986.5	16504.4	16042.9	15807.9	15910.9	16286.0	16722.7	16912.3
7°	17048.4	16821.7	16228.3	15684.2	15395.8	15556.6	16034.6	16590.9	16850.5
8°	16833.9	16562.0	15878.0	15268.0	14983.7	15165.0	15725.5	16401.4	16702.2
9°	16553.8	16253.0	15531.8	14888.9	14584.0	14798.3	15404.1	16149.9	16496.1
10°	16220.0	15898.6	15148.5	14493.4	14217.3	14419.2	15057.9	15857.3	16215.9
11°	15828.5	15519.5	14765.4	14122.5	13858.7	14056.6	14711.8	15507.1	15894.4
12°	15404.1	15119.7	14373.9	13764.0	13516.7	13706.2	14341.0	15144.5	15527.8
13°	14979.6	14695.2	13994.8	13417.8	13191.1	13372.4	13978.2	14748.9	15132.0
14°	14522.2	14262.6	13615.7	13088.0	12882.1	13055.1	13607.4	14349.0	14711.8
15°	14048.3	13842.2	13252.9	12770.8	12577.2	12742.0	13252.9	13936.9	14287.3
16°	13603.2	13413.7	12902.6	12457.6	12296.9	12428.8	12894.4	13525.0	13858.7
17°	13149.9	12976.8	12552.3	12148.5	12004.3	12132.0	12527.6	13108.7	13409.5
18°	12696.7	12552.3	12169.1	11823.0	11695.3	11810.6	12165.1	12688.4	12960.3
19°	12276.3	12144.4	11818.9	11526.2	11410.9	11513.9	11847.7	12284.5	12556.4
20°	11843.6	11736.4	11452.0	11213.0	11105.9	11200.7	11460.3	11884.8	12123.8
21°	11427.4	11332.5	11085.3	10883.3	10796.8	10875.2	11114.2	11497.4	11707.6
22°	10994.7	10941.2	10718.6	10549.6	10491.9	10541.3	10759.7	11089.5	11287.2
23°	10570.1	10520.8	10351.8	10211.7	10162.2	10211.7	10405.5	10702.1	10879.3
24°	10141.7	10088.1	9964.5	9873.8	9832.6	9873.8	10038.6	10290.0	10458.9
25°	9651.2	9643.1	9556.5	9507.0	9486.5	9531.8	9647.1	9865.6	10005.6
26°	9181.4	9156.7	9132.0	9123.7	9127.9	9152.5	9247.4	9412.3	9523.6
27°	8604.6	8641.7	8678.7	8728.2	8744.6	8765.3	8810.5	8930.0	9012.5
28°	8052.3	8122.3	8213.0	8311.9	8357.3	8357.3	8361.3	8427.2	8497.4
29°	7504.3	7578.4	7722.7	7871.0	7932.8	7924.6	7891.5	7920.4	7961.7
30°	6931.5	7026.2	7219.9	7413.6	7504.3	7471.2	7409.5	7380.7	7405.3
31°	6371.0	6465.8	6680.0	6890.2	7009.7	6972.6	6865.5	6844.9	6857.3
32°	5835.3	5930.1	6127.8	6350.4	6486.3	6436.9	6325.6	6292.6	6296.8
33°	5316.0	5390.2	5571.5	5777.6	5888.8	5876.4	5785.8	5744.7	5748.7
34°	4825.7	4887.4	5023.4	5180.0	5287.2	5283.0	5217.0	5221.2	5233.6
35°	4388.8	4421.8	4487.7	4574.2	4640.2	4677.3	4685.4	4718.5	4759.7
37.5°	3317.4	3329.7	3251.5	3164.8	3148.4	3255.6	3441.0	3601.8	3663.5
40°	2299.5	2270.7	2171.7	2019.3	1973.9	2093.5	2328.3	2555.0	2637.4
42.5°	1430.1	1417.6	1355.8	1240.4	1199.2	1269.3	1446.4	1619.6	1701.9
45°	853.1	836.5	803.5	758.2	749.9	778.9	869.4	968.4	1013.7
47.5°	490.3	486.3	465.7	449.2	445.0	465.7	506.9	564.5	577.0
50°	267.8	263.8	259.6	259.6	259.6	272.0	292.6	309.1	317.4
52.5°	131.9	136.0	131.9	136.0	140.1	148.3	144.2	160.8	160.8
55°	65.9	61.8	70.1	78.4	78.4	78.4	78.4	78.4	74.2
57.5°	49.4	53.6	45.4	49.4	45.4	45.4	41.3	45.4	49.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	33.0	28.8	33.0	37.1	41.3	37.1	28.8	33.0	37.1
62.5°	16.5	16.5	16.5	24.7	37.1	28.8	24.7	20.6	20.6
65°	24.7	16.5	20.6	24.7	20.6	20.6	16.5	20.6	16.5
67.5°	12.4	20.6	12.4	8.3	12.4	16.5	12.4	8.3	8.3
70°	0.0	4.1	4.1	12.4	12.4	12.4	12.4	8.3	8.3
72.5°	4.1	4.1	4.1	8.3	4.1	8.3	4.1	4.1	8.3
75°	0.0	0.0	4.1	4.1	0.0	4.1	0.0	0.0	0.0
77.5°	4.1	0.0	4.1	4.1	0.0	0.0	0.0	4.1	0.0
80°	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	4.1
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)