

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: P247922

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150850 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16478.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

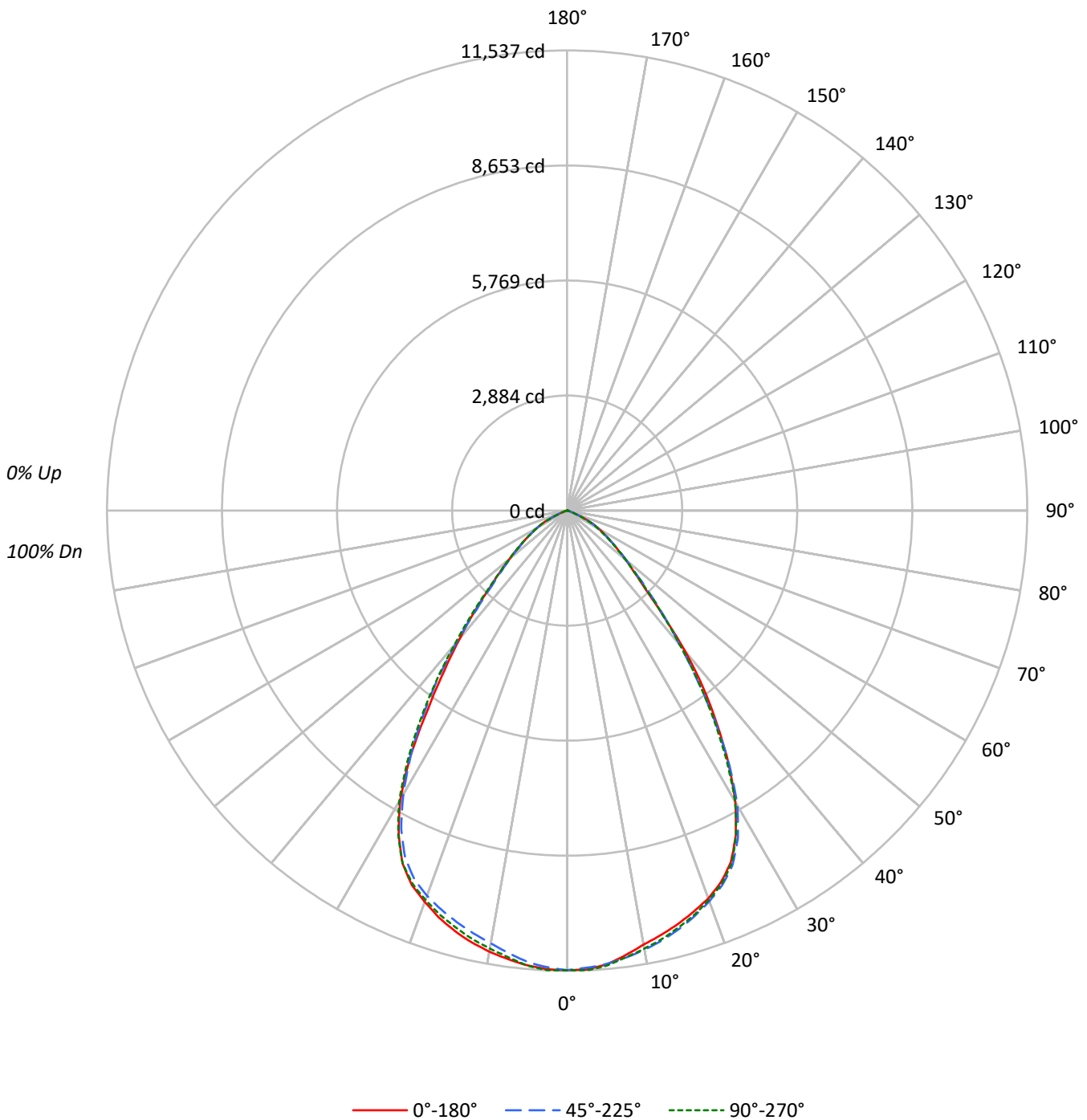
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	355321	355321	355321
5°	353480	354483	354294
10°	345926	349129	351571
15°	342536	345285	348161
20°	339599	340830	342526
25°	330674	331949	332225
30°	300143	299855	297836
35°	247119	241593	229505
40°	184786	176465	168475
45°	119663	122799	120017
50°	91594	91110	90721
55°	71772	70465	69868
60°	57097	53970	54722
65°	37467	33111	33476
70°	13425	12325	12785
75°	4825	5909	4825
80°	3054	4315	3605
85°	708	2158	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1079.3	6.5
10°-20°	3042.8	18.5
20°-30°	4411.5	26.8
30°-40°	3965.3	24.1
40°-50°	2234.5	13.6
50°-60°	1190.6	7.2
60°-70°	475.8	2.9
70°-80°	63.4	0.4
80°-90°	14.9	0.1
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°	8533.5	51.8
0°-40°	12498.8	75.9
0°-60°	15923.9	96.6
0°-90°	16478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11523	11523	11523	11523	11523	
5°	11420	11409	11452	11362	11446	###
15°	10730	10854	10816	10682	10906	3028
25°	9719	9810	9756	9605	9764	4412
35°	6565	6470	6418	6329	6097	4073
45°	2744	2893	2816	2683	2752	2254
55°	1335	1339	1311	1280	1300	1217
65°	514	489	454	441	459	508
75°	40	52	50	49	40	60
85°	2	12	6	17	4	6
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°	11522.8	11522.8	11522.8	11522.8	11522.8	11522.8	11522.8	11522.8	11522.8
2.5°	11514.7	11490.4	11472.1	11506.6	11537.0	11453.9	11460.0	11496.5	11508.6
5°	11419.5	11397.2	11409.3	11437.7	11451.9	11347.6	11361.7	11423.5	11445.8
7.5°	11241.2	11258.4	11302.0	11338.4	11295.9	11173.3	11193.6	11299.9	11343.5
10°	11047.7	11088.3	11179.4	11222.0	11150.0	10993.0	11016.3	11159.2	11228.0
12.5°	10893.8	10938.3	11033.6	11066.0	11002.2	10833.0	10857.3	11005.2	11087.2
15°	10729.7	10770.2	10854.3	10880.6	10815.8	10659.8	10682.1	10823.9	10905.9
17.5°	10544.3	10579.8	10654.7	10679.0	10622.3	10457.2	10492.7	10624.3	10696.3
20°	10348.8	10374.2	10426.8	10441.0	10386.3	10261.7	10277.9	10391.4	10438.0
22.5°	10082.4	10114.9	10163.5	10178.7	10128.0	9991.3	10006.5	10117.9	10168.5
25°	9718.8	9766.4	9810.0	9829.2	9756.3	9575.0	9605.4	9700.6	9764.4
27.5°	9154.6	9193.1	9270.1	9272.1	9171.8	8983.4	9008.8	9131.3	9147.5
30°	8429.4	8464.8	8532.7	8517.5	8421.3	8197.4	8217.7	8337.2	8364.6
32.5°	7541.1	7554.2	7572.5	7567.4	7449.9	7344.6	7303.0	7317.2	7327.3
35°	6564.6	6587.9	6470.4	6406.6	6417.8	6426.9	6328.6	6182.8	6096.7
37.5°	5618.6	5507.2	5362.3	5312.7	5404.9	5435.2	5346.1	5128.3	5048.3
40°	4590.5	4491.2	4376.8	4385.9	4383.8	4405.1	4292.7	4212.7	4185.3
42.5°	3533.0	3534.0	3609.0	3557.3	3547.2	3399.3	3355.7	3400.3	3448.9
45°	2744.0	2835.1	2892.9	2877.7	2815.9	2683.2	2683.2	2761.2	2752.1
47.5°	2258.8	2291.2	2334.7	2331.7	2287.1	2189.9	2206.1	2259.8	2287.1
50°	1909.3	1923.5	1943.8	1926.5	1899.2	1838.4	1837.4	1874.9	1891.1
52.5°	1597.3	1605.5	1600.4	1591.3	1576.1	1543.7	1533.5	1564.9	1569.0
55°	1335.0	1350.2	1339.1	1313.7	1310.7	1281.3	1280.3	1305.6	1299.6
57.5°	1112.2	1097.0	1081.8	1060.5	1057.5	1048.4	1058.5	1062.5	1056.5
60°	925.8	926.8	897.4	877.2	875.1	862.0	876.2	887.3	887.3
62.5°	745.5	741.4	723.2	692.8	697.9	692.8	698.9	700.9	691.8
65°	513.5	514.6	489.2	452.8	453.8	449.7	440.6	454.8	458.8
67.5°	273.5	271.5	252.2	239.0	234.0	236.0	246.1	249.2	238.0
70°	148.9	143.8	147.9	133.7	136.7	131.7	136.7	144.8	141.8
72.5°	76.0	81.0	72.9	66.9	75.0	73.9	86.1	79.0	70.9
75°	40.5	43.6	51.7	47.6	49.6	47.6	48.6	45.6	40.5
77.5°	29.4	32.4	37.5	36.5	35.5	33.4	37.5	41.5	33.4
80°	17.2	21.3	23.3	27.3	24.3	27.3	31.4	25.3	20.3
82.5°	11.1	17.2	17.2	18.2	26.3	17.2	28.4	25.3	20.3
85°	2.0	3.0	12.2	7.1	6.1	18.2	17.2	13.2	4.1
87.5°	0.0	7.1	16.2	8.1	13.2	12.2	17.2	18.2	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)