

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: P247484

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100830 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9486.0 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

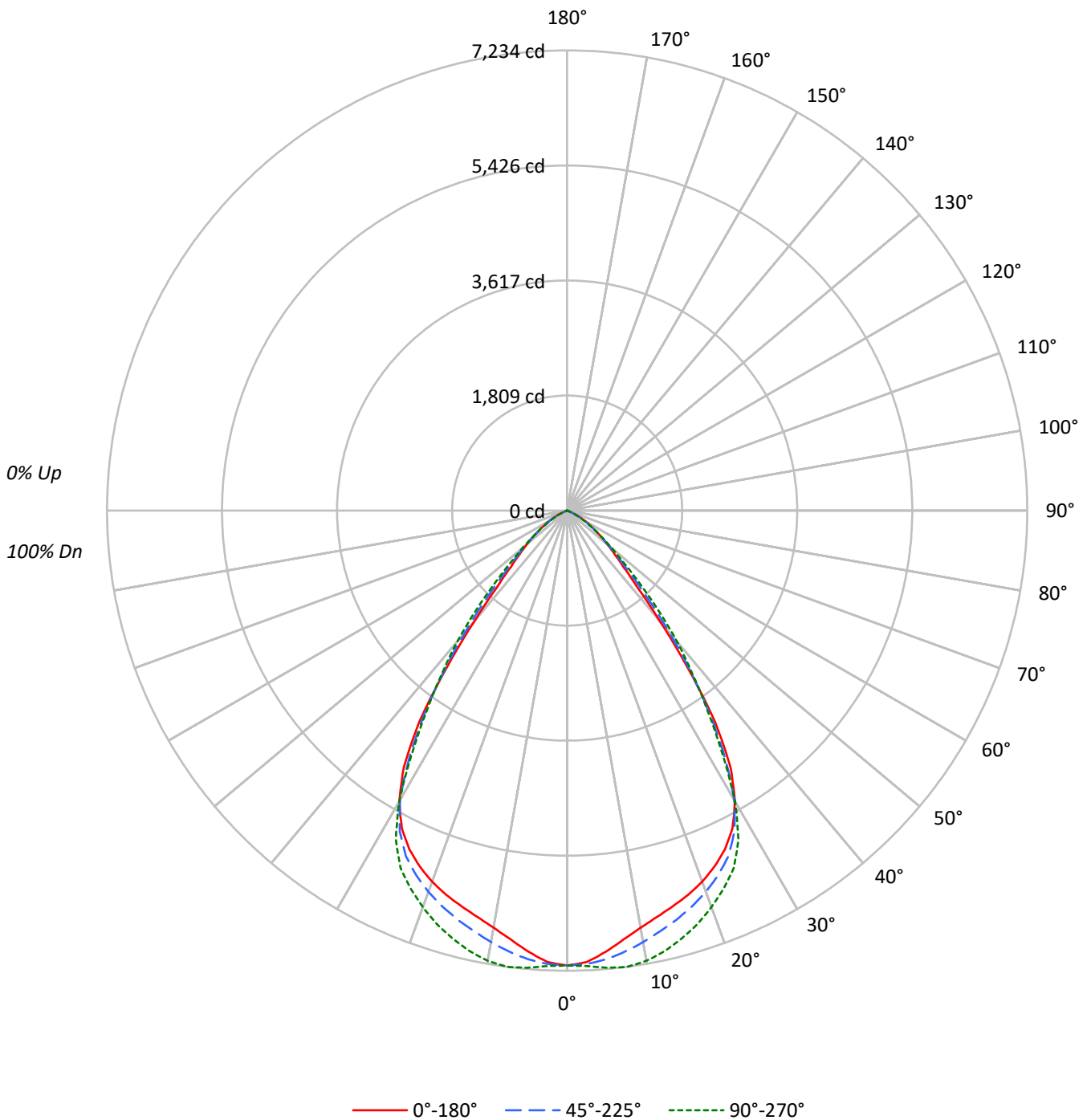
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

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

	0°	45°	90°
0°	220517	220517	220517
5°	215521	219155	223334
10°	208388	215665	225055
15°	205438	212461	222313
20°	203711	209290	217694
25°	199779	204029	210875
30°	187804	187092	187982
35°	152594	147467	145209
40°	90592	99846	108146
45°	54219	61031	69312
50°	39506	40523	43521
55°	28617	27612	28214
60°	19421	17953	17262
65°	9755	9026	8573
70°	2705	2362	2137
75°	1037	739	739
80°	444	444	213
85°	425	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	670.5	7.1
10°-20°	1882.9	19.8
20°-30°	2736.7	28.9
30°-40°	2420.2	25.5
40°-50°	1151.3	12.1
50°-60°	479.6	5.1
60°-70°	134.0	1.4
70°-80°	10.1	0.1
80°-90°	0.7	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°	5290.1	55.8
0°-40°	7710.3	81.3
0°-60°	9341.2	98.5
0°-90°	9486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9486.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7151	7151	7151	7151	7151	
5°	6963	6998	7080	7174	7215	655
15°	6435	6494	6655	6858	6964	1818
25°	5872	5898	5997	6129	6198	2684
35°	4054	3996	3917	3857	3857	2426
45°	1243	1287	1400	1530	1589	1035
55°	532	526	514	514	525	484
65°	134	131	124	119	118	146
75°	9	8	6	6	6	12
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7151.2	7151.2	7151.2	7151.2	7151.2
2.5°	7103.8	7110.0	7133.7	7156.2	7166.2
5°	6962.6	6997.5	7080.0	7173.7	7215.0
7.5°	6801.4	6853.8	6992.5	7157.5	7233.7
10°	6655.2	6721.4	6887.6	7091.3	7187.5
12.5°	6540.2	6601.4	6771.4	6983.8	7092.5
15°	6435.2	6494.0	6655.2	6857.6	6963.8
17.5°	6330.3	6386.5	6525.2	6713.9	6816.4
20°	6207.8	6252.8	6377.8	6544.0	6633.9
22.5°	6055.4	6096.6	6201.6	6349.0	6430.2
25°	5871.7	5897.9	5996.6	6129.1	6197.8
27.5°	5628.0	5634.3	5694.3	5780.5	5831.7
30°	5274.4	5270.7	5254.4	5250.7	5279.4
32.5°	4779.6	4724.6	4629.6	4584.6	4549.7
35°	4053.6	3996.1	3917.4	3857.4	3857.4
37.5°	3098.9	3148.9	3180.1	3217.6	3236.4
40°	2250.5	2324.2	2480.4	2642.8	2686.6
42.5°	1635.7	1704.4	1873.1	2054.3	2106.8
45°	1243.3	1287.0	1399.5	1529.5	1589.4
47.5°	1004.6	1017.1	1073.4	1150.8	1179.6
50°	823.5	827.2	844.7	884.7	907.2
52.5°	666.0	663.5	668.5	679.8	689.8
55°	532.3	526.1	513.6	513.6	524.8
57.5°	411.1	402.4	388.6	382.4	378.6
60°	314.9	306.1	291.1	281.2	279.9
62.5°	226.2	218.7	203.7	194.9	192.4
65°	133.7	131.2	123.7	118.7	117.5
67.5°	62.5	60.0	53.7	51.2	50.0
70°	30.0	28.7	26.2	25.0	23.7
72.5°	15.0	15.0	12.5	12.5	12.5
75°	8.7	7.5	6.2	6.2	6.2
77.5°	5.0	3.7	3.7	3.7	3.7
80°	2.5	2.5	2.5	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)