

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: P247579

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90830 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5989.0 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

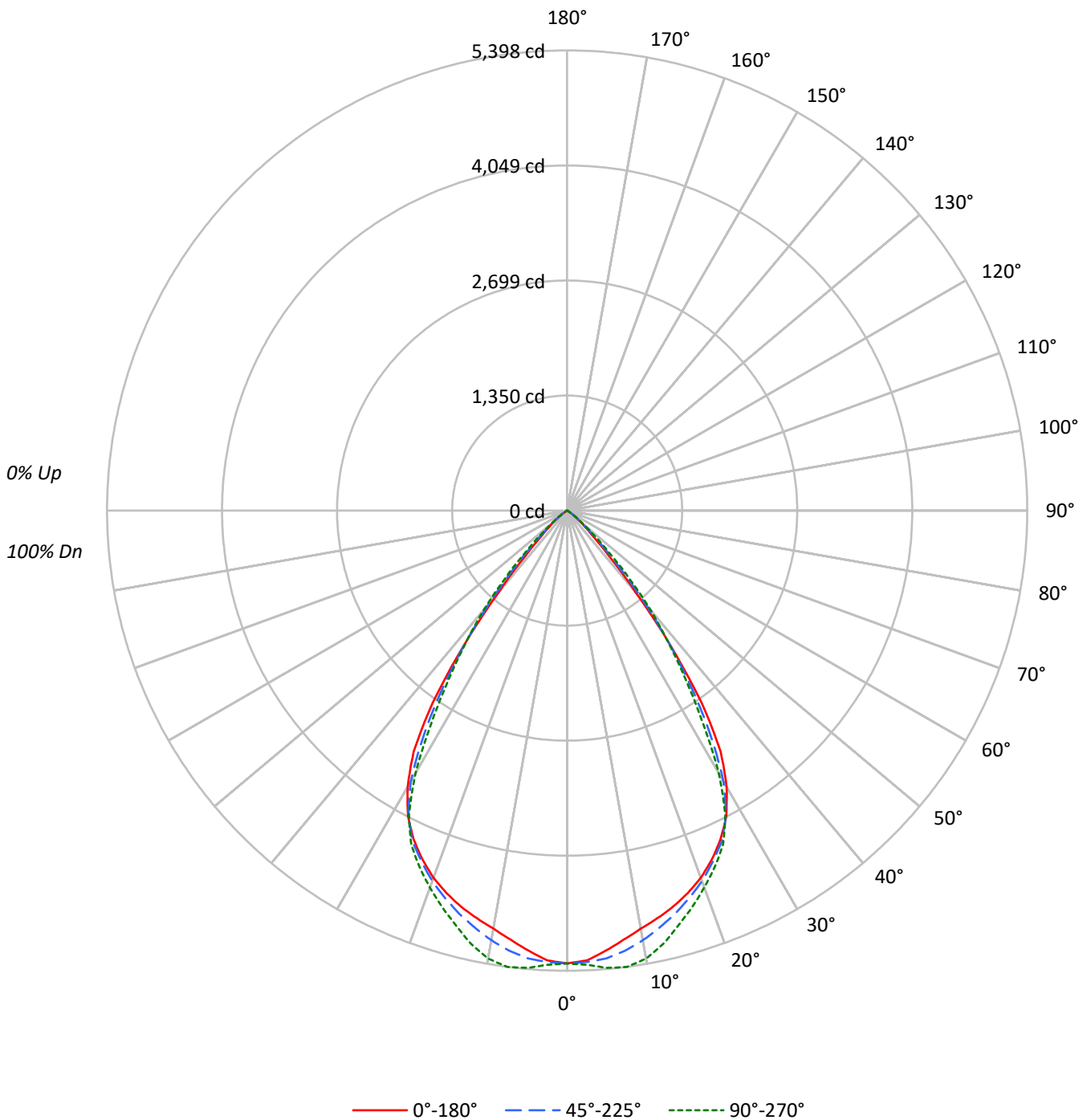
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

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

	0°	45°	90°
0°	163806	163806	163806
5°	160441	163258	166679
10°	155921	160264	167081
15°	153542	156275	160872
20°	150402	151787	154416
25°	144851	145882	147171
30°	133272	130687	126831
35°	103266	96215	91404
40°	50177	56935	60989
45°	19410	24984	30273
50°	9091	10391	11897
55°	3785	4075	4193
60°	1270	1203	1135
65°	161	233	233
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.3	8.3
10°-20°	1381.8	23.1
20°-30°	1947.1	32.5
30°-40°	1575.3	26.3
40°-50°	500.1	8.4
50°-60°	80.0	1.3
60°-70°	5.4	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3828.3	63.9
0°-40°	5403.5	90.2
0°-60°	5983.6	99.9
0°-90°	5989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5989.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5312	5312	5312	5312	5312	
5°	5183	5207	5274	5351	5385	488
15°	4810	4828	4895	4988	5039	1354
25°	4257	4265	4288	4311	4326	1944
35°	2743	2668	2556	2464	2428	1627
45°	445	481	573	654	694	415
55°	70	72	76	79	78	73
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
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°
0°	5312.1	5312.1	5312.1	5312.1	5312.1
2.5°	5281.8	5287.2	5300.2	5325.1	5332.7
5°	5183.2	5207.1	5274.2	5351.1	5384.7
7.5°	5077.1	5108.5	5207.1	5337.0	5397.7
10°	4979.6	5013.2	5118.3	5256.9	5336.0
12.5°	4897.3	4923.3	5008.9	5133.4	5207.1
15°	4809.6	4828.0	4895.2	4988.3	5039.2
17.5°	4704.6	4720.8	4765.2	4837.8	4876.8
20°	4583.3	4587.6	4625.5	4672.1	4705.6
22.5°	4432.7	4437.1	4458.7	4503.1	4525.9
25°	4257.3	4264.9	4287.6	4311.4	4325.5
27.5°	4041.8	4045.0	4034.2	4014.7	4019.0
30°	3742.9	3730.9	3670.3	3586.9	3562.0
32.5°	3350.8	3271.7	3140.7	3023.7	2976.1
35°	2743.2	2668.5	2555.9	2463.8	2428.1
37.5°	1971.1	1976.5	1968.9	1948.3	1952.7
40°	1246.5	1296.4	1414.4	1491.3	1515.1
42.5°	748.4	802.5	932.5	1036.4	1070.0
45°	445.1	480.9	572.9	654.1	694.2
47.5°	285.9	303.2	348.7	396.4	419.1
50°	189.5	198.2	216.6	238.3	248.0
52.5°	121.3	124.5	133.2	140.8	148.4
55°	70.4	71.5	75.8	79.1	78.0
57.5°	36.8	36.8	36.8	36.8	36.8
60°	20.6	19.5	19.5	19.5	18.4
62.5°	9.7	9.7	9.7	8.7	8.7
65°	2.2	3.2	3.2	3.2	3.2
67.5°	0.0	0.0	0.0	0.0	1.1
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)