

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: P247575

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247575  
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 EC8B90827 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5843.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 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

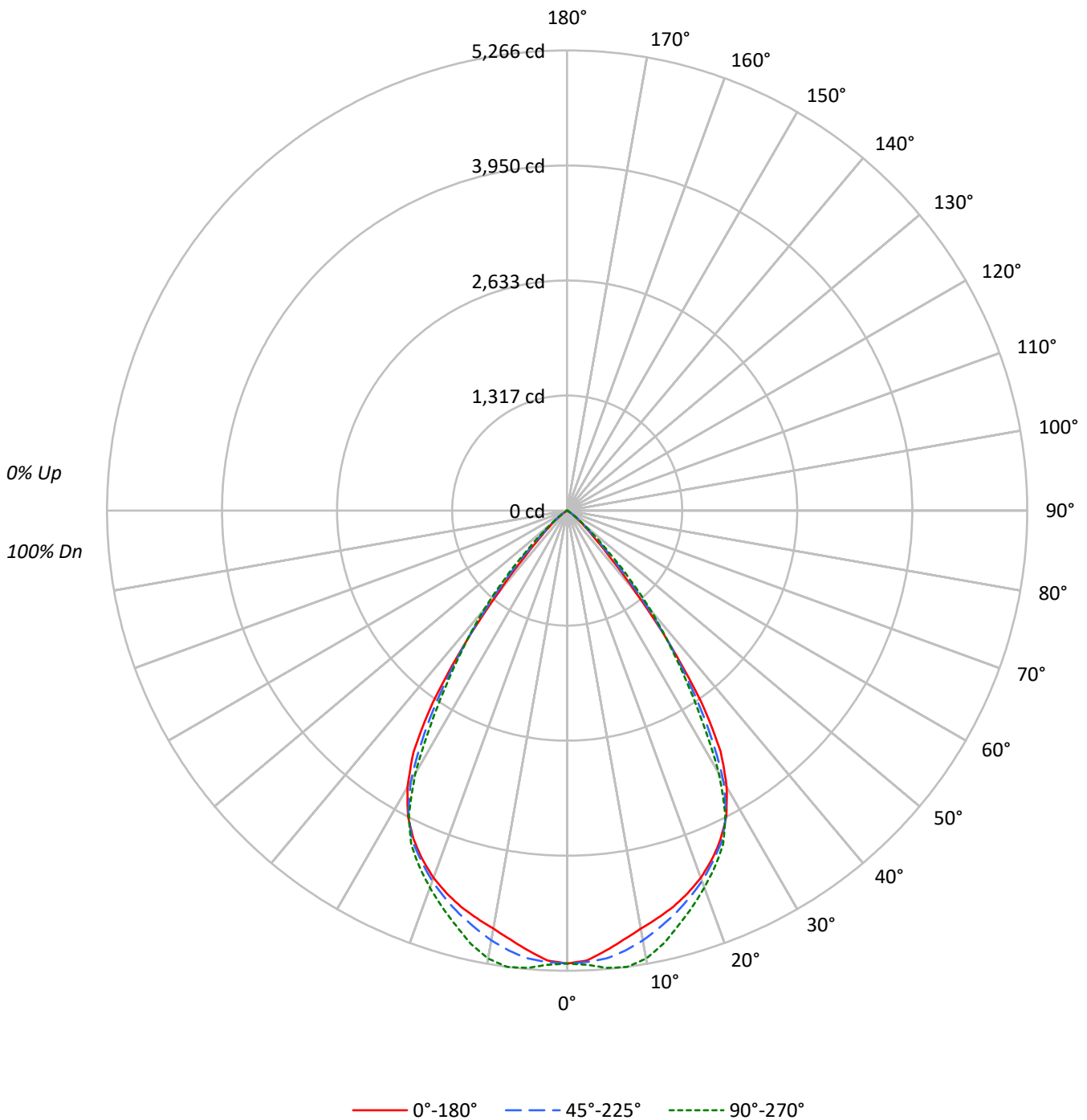
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	159812	159812	159812
5°	156532	159277	162614
10°	152123	156357	163007
15°	149801	152463	156952
20°	146734	148086	150652
25°	141319	142326	143585
30°	130021	127501	123740
35°	100751	93870	89175
40°	48953	55546	59503
45°	18939	24373	29536
50°	8870	10137	11609
55°	3693	3978	4091
60°	1240	1172	1110
65°	153	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°	487.2	8.3
10°-20°	1348.1	23.1
20°-30°	1899.6	32.5
30°-40°	1536.9	26.3
40°-50°	487.9	8.3
50°-60°	78.0	1.3
60°-70°	5.3	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°	3734.9	63.9
0°-40°	5271.8	90.2
0°-60°	5837.7	99.9
0°-90°	5843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5843.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5183	5183	5183	5183	5183	
5°	5057	5080	5146	5221	5253	476
15°	4692	4710	4776	4867	4916	1321
25°	4154	4161	4183	4206	4220	1897
35°	2676	2604	2494	2404	2369	1587
45°	434	469	559	638	677	405
55°	69	70	74	77	76	72
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°	5182.6	5182.6	5182.6	5182.6	5182.6
2.5°	5153.0	5158.3	5171.0	5195.3	5202.7
5°	5056.9	5080.1	5145.6	5220.7	5253.4
7.5°	4953.3	4984.0	5080.1	5206.9	5266.1
10°	4858.3	4891.0	4993.5	5128.7	5205.9
12.5°	4777.9	4803.3	4886.8	5008.3	5080.1
15°	4692.4	4710.3	4775.8	4866.7	4916.4
17.5°	4589.9	4605.7	4649.0	4719.8	4757.9
20°	4471.5	4475.8	4512.7	4558.2	4590.9
22.5°	4324.7	4328.9	4350.0	4393.3	4415.5
25°	4153.5	4160.9	4183.1	4206.3	4220.1
27.5°	3943.2	3946.4	3935.8	3916.8	3921.0
30°	3651.6	3640.0	3580.8	3499.5	3475.2
32.5°	3269.1	3192.0	3064.1	2950.0	2903.5
35°	2676.4	2603.5	2493.6	2403.8	2368.9
37.5°	1923.0	1928.3	1920.9	1900.8	1905.1
40°	1216.1	1264.8	1379.9	1454.9	1478.2
42.5°	730.1	782.9	909.7	1011.2	1043.9
45°	434.3	469.1	558.9	638.2	677.3
47.5°	278.9	295.8	340.2	386.7	408.9
50°	184.9	193.4	211.3	232.5	242.0
52.5°	118.3	121.5	130.0	137.4	144.8
55°	68.7	69.7	74.0	77.1	76.1
57.5°	35.9	35.9	35.9	35.9	35.9
60°	20.1	19.0	19.0	19.0	18.0
62.5°	9.5	9.5	9.5	8.5	8.5
65°	2.1	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)