

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: P247519

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247519  
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: LSR8B90D010 EC8B90927 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6697.2 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

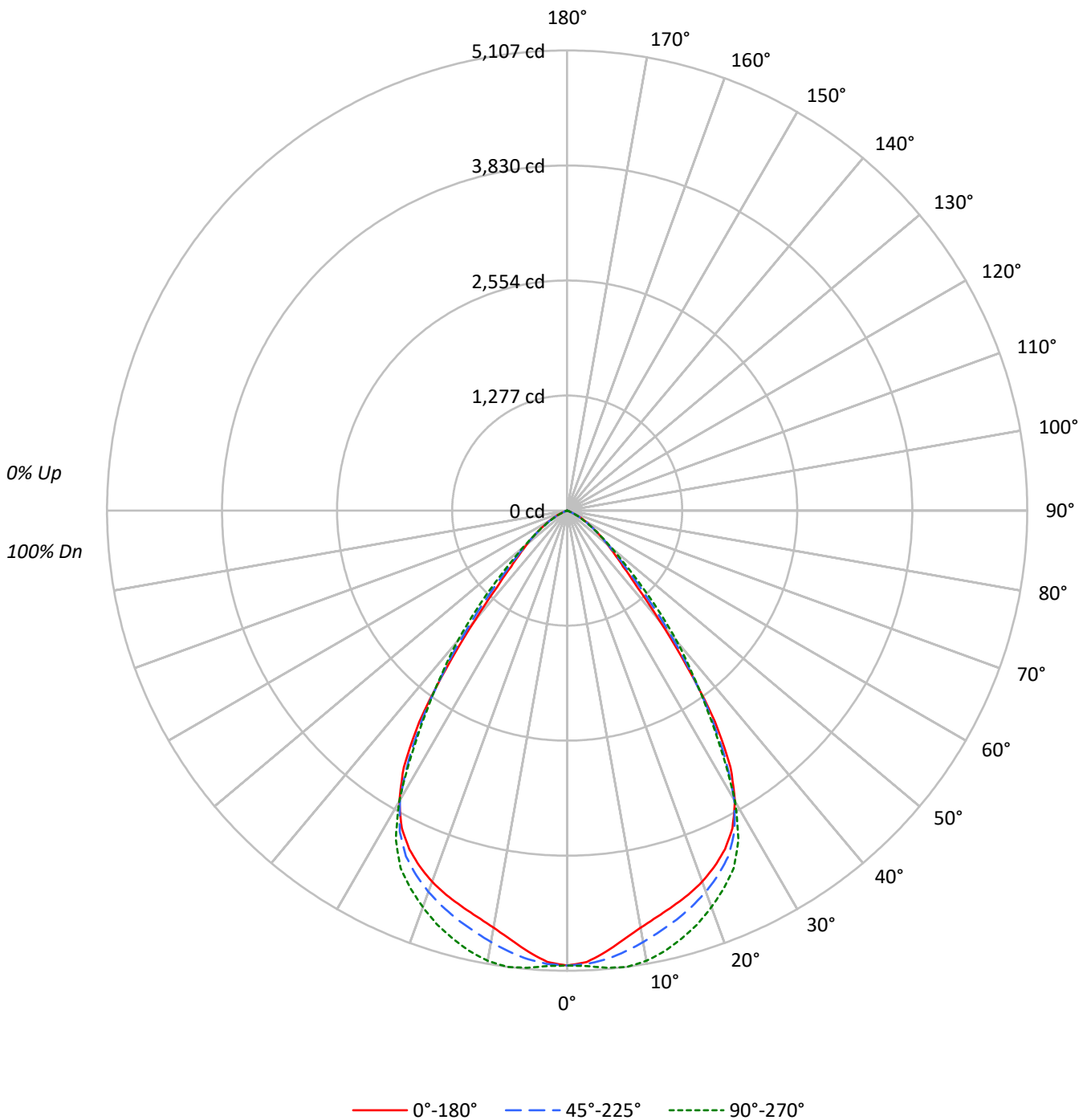
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42

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

	0°	45°	90°
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°	473.4	7.1
10°-20°	1329.4	19.8
20°-30°	1932.1	28.8
30°-40°	1708.6	25.5
40°-50°	812.8	12.1
50°-60°	338.6	5.1
60°-70°	94.6	1.4
70°-80°	7.2	0.1
80°-90°	0.5	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°	3734.8	55.8
0°-40°	5443.5	81.3
0°-60°	6594.9	98.5
0°-90°	6697.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6697.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5049	5049	5049	5049	5049	
5°	4916	4940	4998	5065	5094	462
15°	4543	4585	4699	4841	4916	1283
25°	4145	4164	4234	4327	4376	1895
35°	2862	2821	2766	2723	2723	1713
45°	878	909	988	1080	1122	731
55°	376	371	363	363	371	342
65°	94	93	87	84	83	103
75°	6	5	4	4	4	8
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°	5048.8	5048.8	5048.8	5048.8	5048.8
2.5°	5015.2	5019.6	5036.4	5052.3	5059.3
5°	4915.6	4940.3	4998.5	5064.6	5093.8
7.5°	4801.7	4838.8	4936.7	5053.2	5107.0
10°	4698.6	4745.4	4862.6	5006.5	5074.3
12.5°	4617.3	4660.7	4780.6	4930.5	5007.4
15°	4543.3	4584.7	4698.6	4841.4	4916.5
17.5°	4469.2	4508.9	4606.8	4740.0	4812.3
20°	4382.8	4414.5	4502.7	4620.0	4683.6
22.5°	4275.1	4304.2	4378.3	4482.4	4539.7
25°	4145.4	4164.0	4233.6	4327.2	4375.7
27.5°	3973.4	3977.8	4020.2	4081.0	4117.2
30°	3723.8	3721.0	3709.6	3707.0	3727.2
32.5°	3374.4	3335.5	3268.6	3236.7	3212.1
35°	2861.8	2821.3	2765.7	2723.3	2723.3
37.5°	2187.8	2223.1	2245.2	2271.6	2284.9
40°	1588.8	1640.9	1751.2	1865.8	1896.8
42.5°	1154.8	1203.3	1322.4	1450.4	1487.4
45°	877.7	908.7	988.1	1079.8	1122.2
47.5°	709.3	718.1	757.8	812.5	832.8
50°	581.4	584.0	596.4	624.6	640.5
52.5°	470.2	468.4	471.9	479.9	487.0
55°	375.9	371.4	362.6	362.6	370.6
57.5°	290.2	284.1	274.4	270.0	267.3
60°	222.3	216.1	205.5	198.5	197.7
62.5°	159.6	154.4	143.8	137.6	135.9
65°	94.4	92.6	87.3	83.8	82.9
67.5°	44.1	42.3	37.9	36.2	35.3
70°	21.2	20.2	18.6	17.7	16.8
72.5°	10.6	10.6	8.8	8.8	8.8
75°	6.2	5.3	4.4	4.4	4.4
77.5°	3.5	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	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)