

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: P247611

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247611  
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 EC8B90950 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5744.0 lumens  
Efficiency: N/A  
Efficacy: 66.7 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

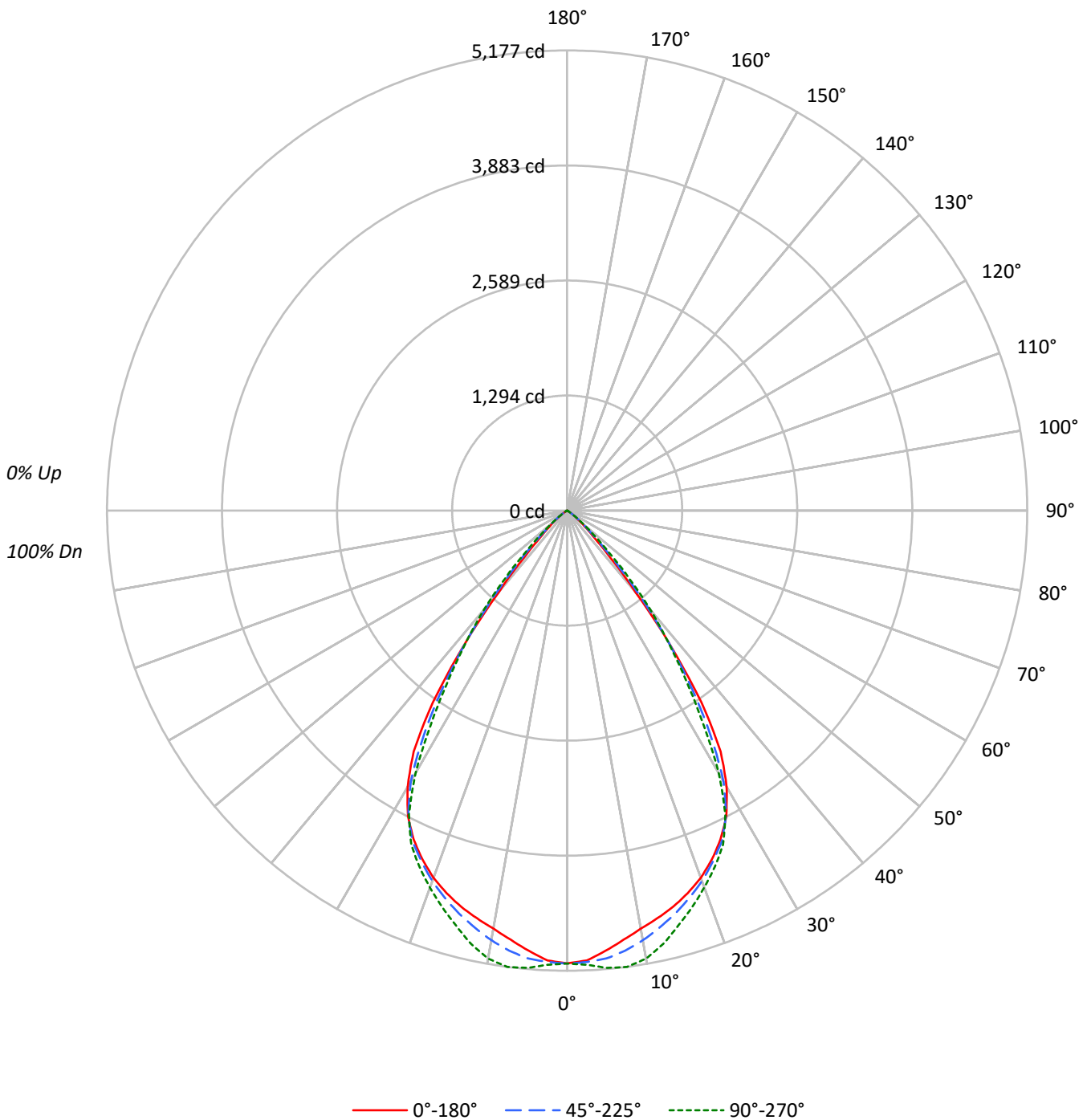
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	157105	157105	157105
5°	153879	156581	159859
10°	149543	153708	160245
15°	147263	149880	154292
20°	144250	145579	148099
25°	138924	139914	141152
30°	127817	125339	121643
35°	99042	92277	87666
40°	48124	54604	58493
45°	18617	23963	29035
50°	8721	9964	11413
55°	3629	3908	4021
60°	1215	1153	1092
65°	153	226	226
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°	478.9	8.3
10°-20°	1325.3	23.1
20°-30°	1867.4	32.5
30°-40°	1510.8	26.3
40°-50°	479.6	8.4
50°-60°	76.7	1.3
60°-70°	5.2	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°	3671.7	63.9
0°-40°	5182.5	90.2
0°-60°	5738.8	99.9
0°-90°	5744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5744.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5095	5095	5095	5095	5095	
5°	4971	4994	5058	5132	5164	468
15°	4613	4630	4695	4784	4833	1299
25°	4083	4090	4112	4135	4149	1864
35°	2631	2559	2451	2363	2329	1560
45°	427	461	550	627	666	398
55°	68	69	73	76	75	70
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°	5094.8	5094.8	5094.8	5094.8	5094.8
2.5°	5065.7	5070.9	5083.4	5107.3	5114.6
5°	4971.2	4994.1	5058.5	5132.2	5164.4
7.5°	4869.4	4899.5	4994.1	5118.7	5176.9
10°	4775.9	4808.1	4908.9	5041.8	5117.7
12.5°	4697.0	4721.9	4804.0	4923.4	4994.1
15°	4612.9	4630.5	4694.9	4784.2	4833.1
17.5°	4512.1	4527.7	4570.3	4639.9	4677.3
20°	4395.8	4399.9	4436.3	4480.9	4513.1
22.5°	4251.4	4255.5	4276.3	4318.9	4340.7
25°	4083.1	4090.4	4112.2	4135.1	4148.6
27.5°	3876.4	3879.5	3869.2	3850.5	3854.6
30°	3589.7	3578.3	3520.1	3440.2	3416.3
32.5°	3213.7	3137.9	3012.2	2900.0	2854.3
35°	2631.0	2559.4	2451.3	2363.0	2328.8
37.5°	1890.4	1895.6	1888.4	1868.6	1872.8
40°	1195.5	1243.3	1356.5	1430.3	1453.1
42.5°	717.7	769.7	894.3	994.0	1026.2
45°	426.9	461.2	549.5	627.4	665.8
47.5°	274.2	290.8	334.5	380.2	402.0
50°	181.8	190.1	207.7	228.5	237.9
52.5°	116.3	119.5	127.8	135.0	142.3
55°	67.5	68.6	72.7	75.8	74.8
57.5°	35.3	35.3	35.3	35.3	35.3
60°	19.7	18.7	18.7	18.7	17.7
62.5°	9.3	9.3	9.3	8.3	8.3
65°	2.1	3.1	3.1	3.1	3.1
67.5°	0.0	0.0	0.0	0.0	1.0
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)