

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: P247447

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90850 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10646.0 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

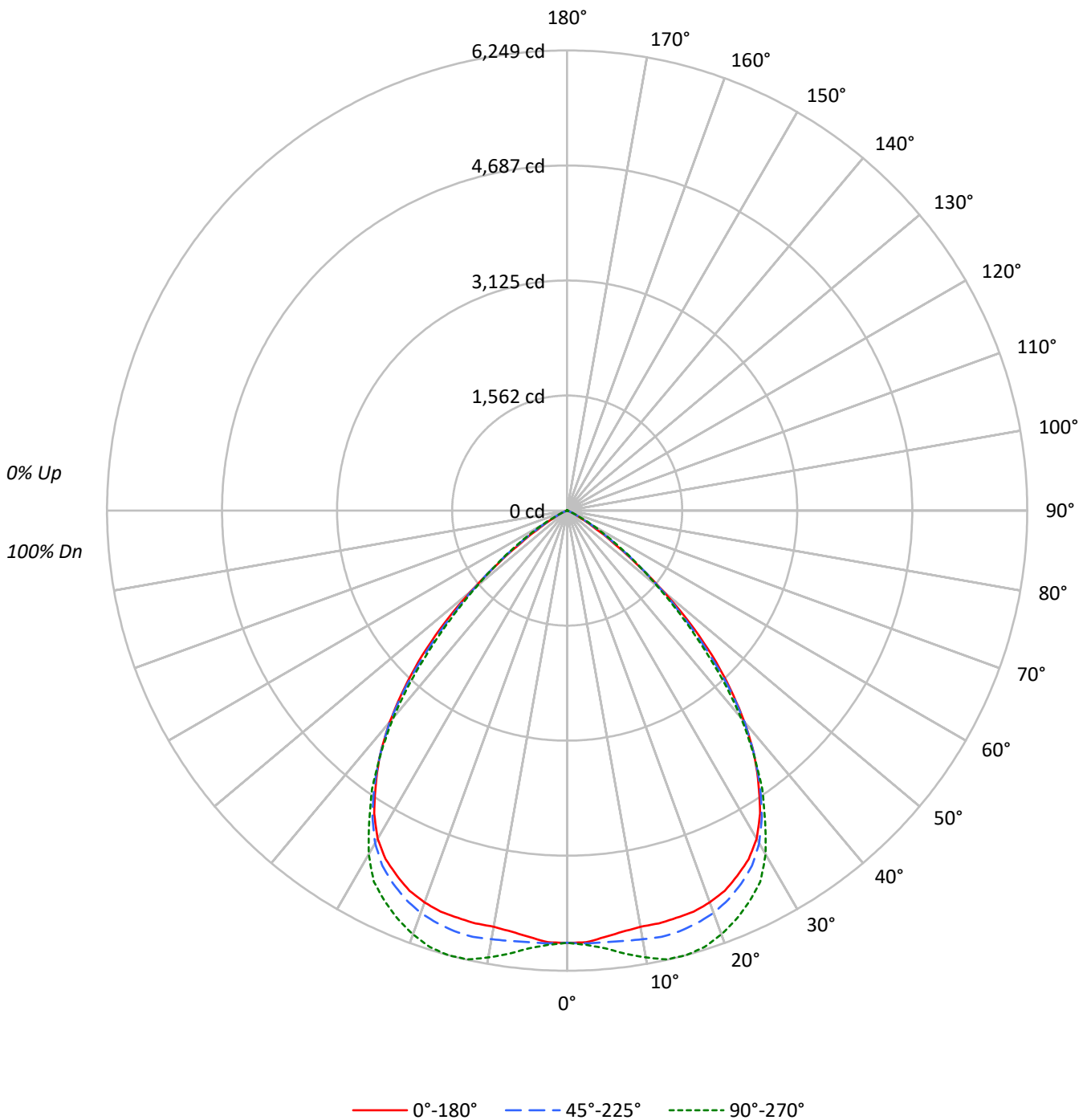
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	180994	180994	180994
5°	179992	182146	184688
10°	179678	185073	192932
15°	182826	188799	199506
20°	185797	190775	200958
25°	186119	190236	199238
30°	183282	185678	191853
35°	170581	171695	173845
40°	150763	150582	147873
45°	121438	116912	112385
50°	81544	79409	76728
55°	41402	44955	47719
60°	16954	20753	24200
65°	6326	6742	7909
70°	415	415	307
75°	810	1358	1763
80°	195	0	0
85°	814	0	814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.6	5.3
10°-20°	1679.7	15.8
20°-30°	2584.8	24.3
30°-40°	2831.0	26.6
40°-50°	2058.4	19.3
50°-60°	791.9	7.4
60°-70°	124.0	1.2
70°-80°	8.9	0.1
80°-90°	3.6	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°	4828.1	45.4
0°-40°	7659.2	71.9
0°-60°	10509.5	98.7
0°-90°	10646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10646.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5870	5870	5870	5870	5870	
5°	5815	5844	5884	5940	5966	553
15°	5727	5771	5914	6133	6249	1620
25°	5470	5503	5591	5757	5856	2516
35°	4531	4531	4561	4590	4618	2814
45°	2785	2756	2681	2612	2577	2117
55°	770	791	836	864	888	752
65°	87	90	92	105	108	106
75°	7	15	11	15	15	9
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5869.5	5869.5	5869.5	5869.5	5869.5
2.5°	5868.4	5877.5	5883.2	5895.8	5901.5
5°	5814.8	5844.4	5884.4	5940.3	5966.5
7.5°	5768.0	5809.1	5894.6	6015.6	6069.2
10°	5738.3	5782.8	5910.6	6074.9	6161.6
12.5°	5741.8	5790.8	5928.9	6126.2	6242.6
15°	5726.9	5771.4	5914.0	6133.1	6249.4
17.5°	5709.8	5746.3	5873.0	6087.4	6212.9
20°	5661.9	5692.7	5813.6	6007.6	6123.9
22.5°	5590.0	5618.6	5718.9	5899.2	6006.4
25°	5470.2	5503.3	5591.2	5756.6	5855.8
27.5°	5336.8	5356.2	5437.2	5587.8	5682.4
30°	5147.4	5154.2	5214.7	5331.1	5388.1
32.5°	4877.0	4875.9	4921.5	4979.7	5001.4
35°	4531.4	4531.4	4561.0	4589.5	4618.1
37.5°	4172.0	4167.4	4170.8	4177.7	4153.7
40°	3745.3	3736.2	3740.8	3699.7	3673.5
42.5°	3277.6	3285.6	3239.9	3166.9	3139.5
45°	2784.7	2756.2	2680.9	2612.5	2577.1
47.5°	2261.1	2216.6	2144.7	2074.0	2068.3
50°	1699.8	1702.1	1655.3	1615.4	1599.4
52.5°	1179.6	1192.2	1216.1	1220.7	1226.4
55°	770.1	790.6	836.2	863.6	887.6
57.5°	471.2	508.8	547.6	598.9	603.5
60°	274.9	293.2	336.5	375.3	392.4
62.5°	155.2	172.3	181.4	204.2	209.9
65°	86.7	90.1	92.4	105.0	108.4
67.5°	52.5	54.8	57.0	55.9	58.2
70°	4.6	10.3	4.6	5.7	3.4
72.5°	19.4	12.5	13.7	10.3	6.8
75°	6.8	14.8	11.4	14.8	14.8
77.5°	4.6	3.4	5.7	6.8	5.7
80°	1.1	0.0	0.0	0.0	0.0
82.5°	10.3	9.1	5.7	9.1	3.4
85°	2.3	0.0	0.0	0.0	2.3
87.5°	6.8	3.4	3.4	8.0	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)