

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: P247255

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247255  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90850 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9412.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

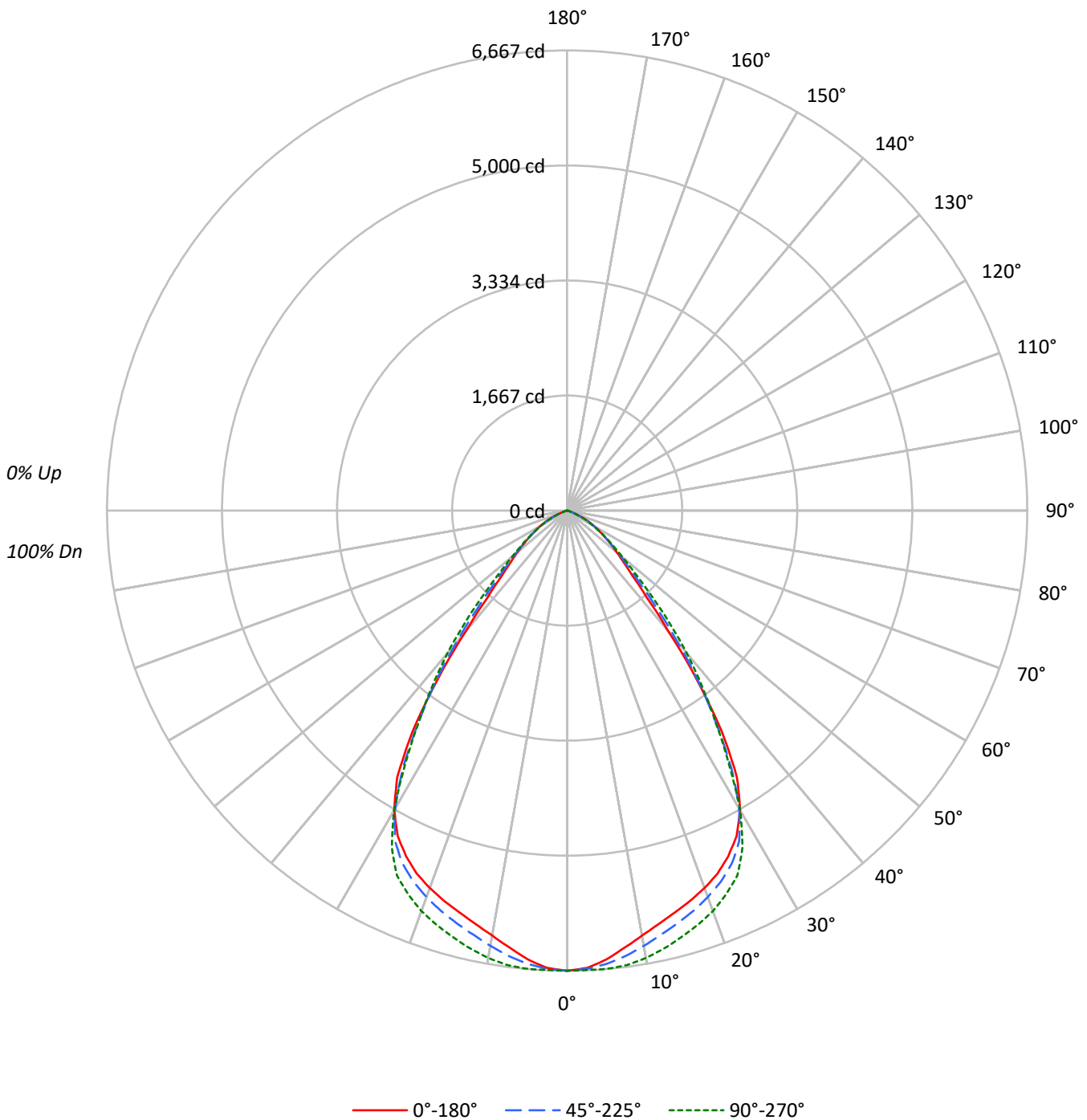
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	205595	205595	205595
5°	202071	204012	206272
10°	195763	200513	206086
15°	192451	197550	204289
20°	190936	195540	202615
25°	187915	192066	198510
30°	178293	177564	178699
35°	146967	141768	141425
40°	92081	100301	108613
45°	58358	64877	73037
50°	44936	46687	49968
55°	35574	35450	36741
60°	27722	27161	27019
65°	18650	17898	17395
70°	8538	7817	7402
75°	4075	3670	3396
80°	2024	1829	1829
85°	1203	1203	814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.5	6.6
10°-20°	1750.8	18.6
20°-30°	2578.6	27.4
30°-40°	2345.3	24.9
40°-50°	1214.1	12.9
50°-60°	608.2	6.5
60°-70°	247.7	2.6
70°-80°	39.5	0.4
80°-90°	4.2	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°	4952.9	52.6
0°-40°	7298.2	77.5
0°-60°	9120.6	96.9
0°-90°	9412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6667	6667	6667	6667	6667	
5°	6528	6545	6591	6641	6664	614
15°	6028	6069	6188	6331	6399	1704
25°	5523	5561	5645	5774	5834	2529
35°	3904	3879	3766	3734	3757	2354
45°	1338	1385	1488	1603	1675	1102
55°	662	659	659	672	683	601
65°	256	254	245	242	238	258
75°	34	33	31	28	28	43
85°	3	3	3	2	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6667.3	6667.3	6667.3	6667.3	6667.3
2.5°	6631.9	6635.3	6644.4	6654.7	6662.7
5°	6528.1	6545.2	6590.8	6641.0	6663.8
7.5°	6386.6	6424.3	6507.5	6601.1	6642.2
10°	6252.0	6295.3	6403.7	6529.2	6581.7
12.5°	6133.3	6175.5	6293.1	6433.4	6498.4
15°	6028.4	6069.4	6188.1	6330.7	6399.2
17.5°	5929.1	5966.8	6079.7	6222.3	6291.9
20°	5818.5	5851.5	5958.8	6096.8	6174.4
22.5°	5693.0	5718.1	5818.5	5949.7	6018.1
25°	5523.0	5560.6	5645.0	5774.0	5834.4
27.5°	5315.3	5339.3	5397.5	5476.2	5501.3
30°	5007.3	5006.2	4986.8	4986.8	5018.7
32.5°	4579.5	4524.7	4432.3	4376.4	4371.8
35°	3904.1	3879.0	3766.0	3734.1	3756.9
37.5°	3080.4	3097.5	3126.0	3171.6	3212.7
40°	2287.5	2330.8	2491.7	2635.4	2698.2
42.5°	1706.7	1762.6	1926.9	2084.4	2160.8
45°	1338.2	1385.0	1487.7	1602.9	1674.8
47.5°	1106.6	1130.6	1185.4	1262.9	1299.5
50°	936.7	948.1	973.2	1013.1	1041.6
52.5°	795.2	790.6	804.3	830.6	840.8
55°	661.7	659.4	659.4	672.0	683.4
57.5°	548.8	545.3	538.5	544.2	547.6
60°	449.5	446.1	440.4	439.2	438.1
62.5°	361.7	356.0	344.5	342.3	342.3
65°	255.6	254.4	245.3	241.9	238.4
67.5°	158.6	154.0	146.0	139.2	138.0
70°	94.7	93.6	86.7	82.1	82.1
72.5°	57.0	54.8	51.3	49.1	47.9
75°	34.2	33.1	30.8	28.5	28.5
77.5°	20.5	19.4	18.3	17.1	17.1
80°	11.4	11.4	10.3	10.3	10.3
82.5°	6.8	6.8	5.7	5.7	5.7
85°	3.4	3.4	3.4	2.3	2.3
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)