

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: P247350

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80850 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 9082.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

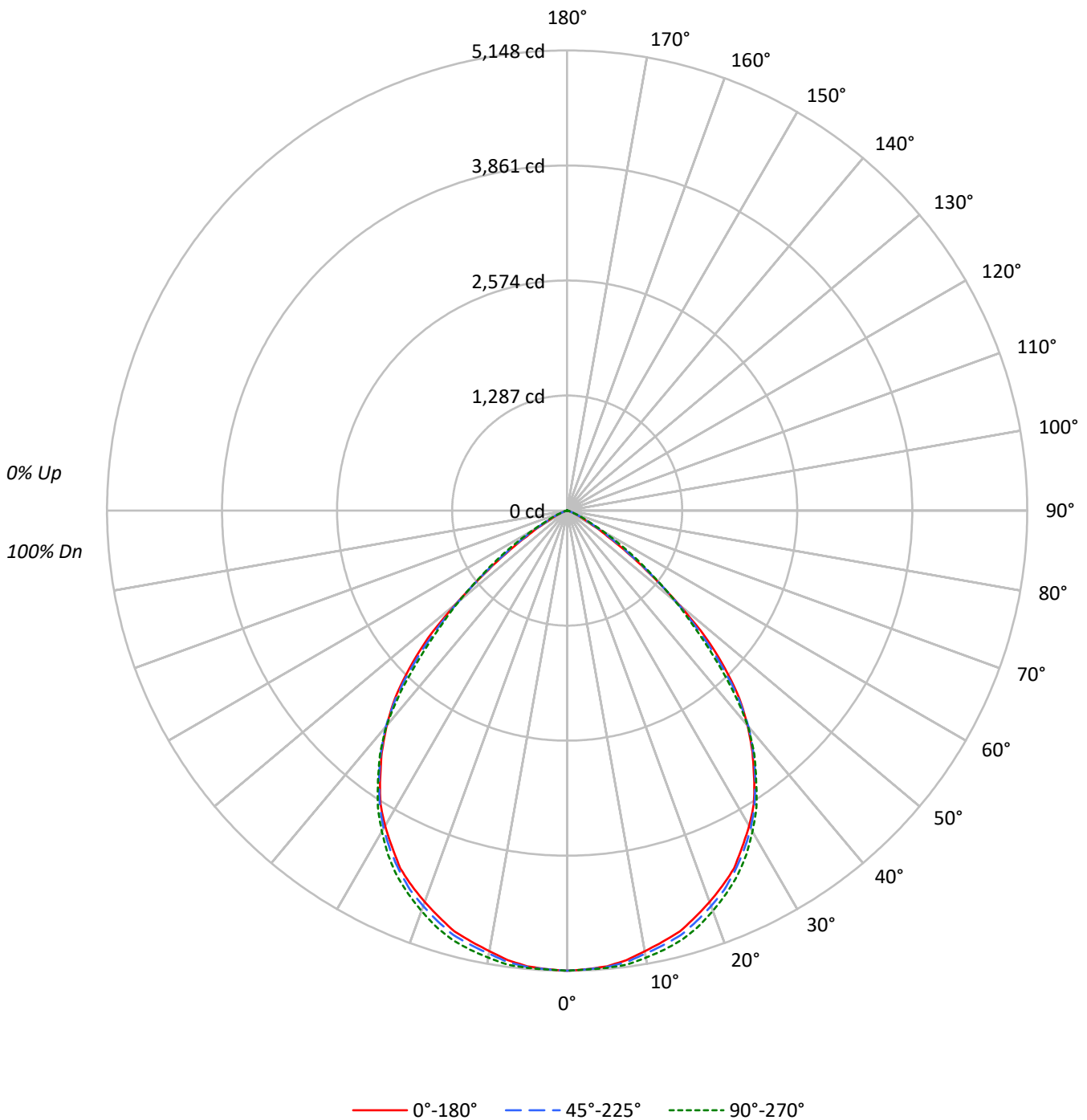
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

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

	0°	45°	90°
0°	158739	158739	158739
5°	158405	158655	158937
10°	156717	157637	159031
15°	155608	156968	158647
20°	152906	154501	156395
25°	150267	151230	153333
30°	145065	146219	147590
35°	137273	138113	138839
40°	126401	127013	126687
45°	108975	106105	101867
50°	77797	76632	75711
55°	44654	47326	51245
60°	21178	24799	28672
65°	9974	12047	13820
70°	4661	5202	5932
75°	2168	3133	3622
80°	1794	1616	2522
85°	708	1804	1061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.4	5.4
10°-20°	1384.1	15.2
20°-30°	2044.8	22.5
30°-40°	2284.9	25.2
40°-50°	1844.6	20.3
50°-60°	820.5	9.0
60°-70°	184.8	2.0
70°-80°	28.5	0.3
80°-90°	3.4	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°	3915.2	43.1
0°-40°	6200.1	68.3
0°-60°	8865.3	97.6
0°-90°	9082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9082.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5148	5148	5148	5148	5148	
5°	5117	5116	5126	5126	5135	485
15°	4874	4877	4917	4953	4970	1371
25°	4416	4416	4445	4481	4507	2025
35°	3647	3645	3669	3673	3688	2273
45°	2499	2480	2433	2347	2336	1889
55°	831	843	880	926	953	781
65°	137	154	165	179	189	159
75°	18	25	26	25	30	24
85°	2	3	5	11	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5147.8	5147.8	5147.8	5147.8	5147.8
2.5°	5134.6	5131.6	5136.7	5133.6	5138.7
5°	5117.4	5116.4	5125.5	5126.5	5134.6
7.5°	5072.9	5073.9	5093.1	5107.3	5123.5
10°	5005.0	5009.0	5034.4	5065.8	5078.9
12.5°	4940.2	4945.2	4977.6	5021.2	5031.3
15°	4874.3	4877.4	4916.9	4953.3	4969.5
17.5°	4766.9	4787.2	4817.6	4859.1	4880.4
20°	4659.6	4673.8	4708.2	4753.8	4765.9
22.5°	4542.1	4557.3	4591.7	4629.2	4642.4
25°	4416.5	4416.5	4444.8	4481.3	4506.6
27.5°	4241.2	4262.5	4282.8	4315.2	4340.5
30°	4074.1	4082.2	4106.5	4132.8	4145.0
32.5°	3888.7	3889.7	3900.9	3930.2	3941.4
35°	3646.6	3644.6	3668.9	3673.0	3688.2
37.5°	3404.5	3414.7	3423.8	3438.0	3439.0
40°	3140.1	3145.2	3155.3	3140.1	3147.2
42.5°	2852.5	2845.4	2826.1	2780.5	2761.3
45°	2498.9	2479.7	2433.1	2347.0	2335.9
47.5°	2109.0	2061.4	2004.6	1940.8	1928.7
50°	1621.7	1625.8	1597.4	1576.2	1578.2
52.5°	1182.1	1196.3	1203.4	1223.6	1234.8
55°	830.6	842.8	880.3	925.8	953.2
57.5°	537.9	561.2	609.8	661.5	680.7
60°	343.4	358.6	402.1	439.6	464.9
62.5°	224.9	229.9	254.3	288.7	289.7
65°	136.7	154.0	165.1	179.3	189.4
67.5°	89.1	89.1	99.3	112.4	115.5
70°	51.7	52.7	57.7	62.8	65.8
72.5°	28.4	31.4	34.4	39.5	44.6
75°	18.2	25.3	26.3	25.3	30.4
77.5°	12.2	12.2	10.1	17.2	18.2
80°	10.1	7.1	9.1	13.2	14.2
82.5°	0.0	1.0	1.0	2.0	0.0
85°	2.0	3.0	5.1	11.1	3.0
87.5°	0.0	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)