

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: P247226

Luminaire Tested: **LD8B80D010 ER8B80950 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80950 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8445.0 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

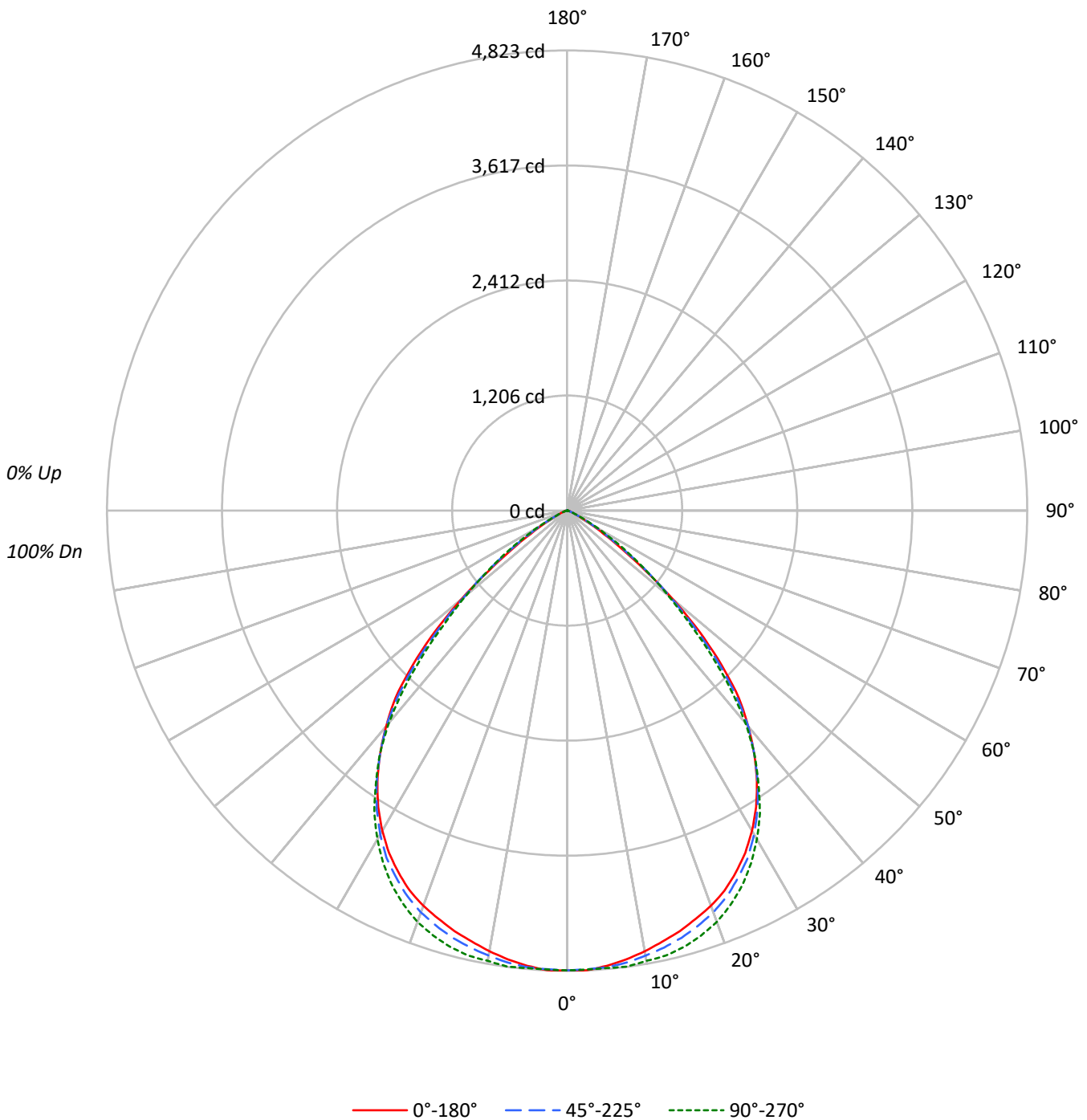
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	148613	148613	148613
5°	148239	148666	148979
10°	146835	148306	150038
15°	145670	147965	151145
20°	144653	147042	150583
25°	142387	144364	147566
30°	137980	139489	141622
35°	130494	131085	131570
40°	118866	118753	117155
45°	99939	96921	92739
50°	69412	67862	66049
55°	37133	41052	43482
60°	17971	20420	23035
65°	7873	7939	8274
70°	4237	3904	3823
75°	3741	3407	2419
80°	160	657	0
85°	318	318	1628



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.5	5.4
10°-20°	1309.2	15.5
20°-30°	1953.5	23.1
30°-40°	2163.5	25.6
40°-50°	1687.2	20.0
50°-60°	707.2	8.4
60°-70°	141.6	1.7
70°-80°	22.5	0.3
80°-90°	3.5	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°	3719.3	44.0
0°-40°	5882.8	69.7
0°-60°	8277.3	98.0
0°-90°	8445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8445.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4819	4819	4819	4819	4819	
5°	4789	4793	4803	4816	4813	454
15°	4563	4583	4635	4703	4734	1287
25°	4185	4202	4243	4308	4337	1923
35°	3466	3461	3482	3499	3495	2155
45°	2292	2282	2222	2154	2127	1734
55°	691	718	764	794	809	673
65°	108	108	109	117	113	130
75°	31	29	29	22	20	25
85°	1	2	1	0	5	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4819.4	4819.4	4819.4	4819.4	4819.4
2.5°	4823.1	4813.9	4812.0	4817.5	4813.9
5°	4789.0	4792.6	4802.8	4815.7	4812.9
7.5°	4744.7	4751.1	4778.8	4812.0	4820.3
10°	4689.4	4703.2	4736.4	4774.2	4791.7
12.5°	4624.8	4643.2	4691.2	4745.6	4777.9
15°	4563.0	4583.3	4634.9	4703.2	4734.5
17.5°	4485.6	4512.3	4563.0	4636.8	4669.1
20°	4408.1	4432.1	4480.9	4552.9	4588.8
22.5°	4312.2	4329.7	4375.8	4436.7	4473.6
25°	4184.9	4201.5	4243.0	4308.5	4337.1
27.5°	4042.9	4062.3	4100.1	4145.3	4171.1
30°	3875.1	3890.7	3917.5	3958.1	3977.4
32.5°	3686.0	3686.9	3713.7	3744.1	3761.6
35°	3466.5	3461.0	3482.2	3498.8	3495.1
37.5°	3224.0	3224.9	3223.1	3224.9	3228.6
40°	2952.9	2940.0	2950.1	2927.0	2910.4
42.5°	2665.1	2652.2	2612.6	2561.9	2534.2
45°	2291.7	2281.5	2222.5	2154.2	2126.6
47.5°	1881.3	1849.9	1802.0	1743.9	1717.1
50°	1446.9	1443.2	1414.6	1400.8	1376.8
52.5°	1034.7	1034.7	1069.7	1064.2	1063.3
55°	690.7	717.5	763.6	794.0	808.8
57.5°	450.0	474.9	513.7	545.9	560.7
60°	291.4	303.4	331.1	356.0	373.5
62.5°	180.7	190.9	205.6	221.3	227.8
65°	107.9	107.9	108.8	117.1	113.4
67.5°	72.9	75.6	71.9	71.9	81.2
70°	47.0	44.3	43.3	42.4	42.4
72.5°	30.4	25.8	27.7	29.5	25.8
75°	31.4	28.6	28.6	22.1	20.3
77.5°	11.1	12.0	8.3	6.5	5.5
80°	0.9	3.7	3.7	0.9	0.0
82.5°	11.1	10.1	8.3	12.9	8.3
85°	0.9	1.8	0.9	0.0	4.6
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)