

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: P247174

Luminaire Tested: **LD8B80D010 ER8B80940 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80940 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7512.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

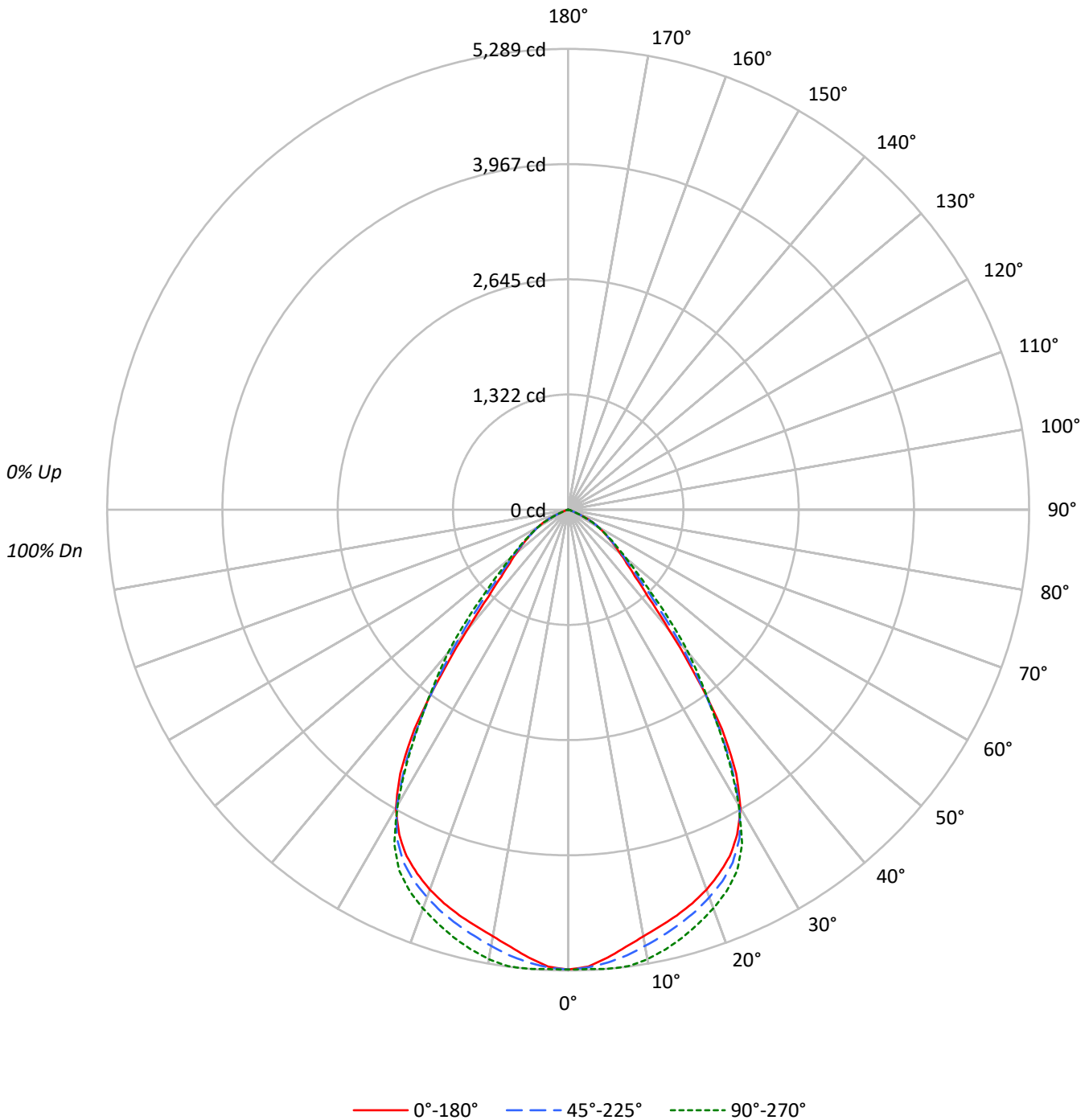
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67				
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61				
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				

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

	0°	45°	90°
0°	162739	162739	162739
5°	159748	161488	163719
10°	155655	159197	164022
15°	153893	157277	162168
20°	152286	155354	159797
25°	149288	151986	155803
30°	140753	140120	139265
35°	115782	111792	111152
40°	72497	79993	86482
45°	47312	52750	58458
50°	37304	39098	41664
55°	30407	30934	31891
60°	24885	24718	24607
65°	16118	15666	14819
70°	5545	5139	4742
75°	1906	1799	1704
80°	799	639	639
85°	318	318	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.4	6.6
10°-20°	1392.9	18.5
20°-30°	2037.1	27.1
30°-40°	1845.9	24.6
40°-50°	981.5	13.1
50°-60°	523.8	7.0
60°-70°	213.7	2.8
70°-80°	21.6	0.3
80°-90°	1.3	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°	3924.4	52.2
0°-40°	5770.2	76.8
0°-60°	7275.5	96.9
0°-90°	7512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7512.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5278	5278	5278	5278	5278	
5°	5161	5174	5217	5264	5289	487
15°	4821	4848	4927	5028	5080	1360
25°	4388	4406	4467	4544	4579	2005
35°	3076	3033	2970	2947	2953	1848
45°	1085	1117	1210	1306	1340	887
55°	566	565	575	583	593	513
65°	221	220	215	202	203	220
75°	16	16	15	14	14	23
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5277.5	5277.5	5277.5	5277.5	5277.5
2.5°	5249.0	5248.1	5257.9	5269.5	5275.7
5°	5160.8	5174.2	5217.0	5264.2	5289.1
7.5°	5061.1	5086.0	5159.9	5241.0	5284.6
10°	4971.1	5003.2	5084.2	5190.2	5238.3
12.5°	4893.6	4924.8	5006.7	5115.4	5168.0
15°	4820.6	4848.2	4926.6	5028.1	5079.8
17.5°	4736.0	4762.7	4838.4	4934.6	4979.1
20°	4640.7	4662.9	4734.2	4824.1	4869.6
22.5°	4522.2	4546.2	4618.4	4701.2	4744.0
25°	4387.7	4406.4	4467.0	4543.6	4579.2
27.5°	4200.6	4217.6	4253.2	4294.2	4320.9
30°	3953.0	3948.6	3935.2	3922.7	3911.2
32.5°	3587.8	3545.1	3480.0	3439.1	3440.9
35°	3075.7	3032.9	2969.7	2947.4	2952.7
37.5°	2403.2	2435.2	2461.1	2503.8	2524.3
40°	1801.0	1856.3	1987.2	2101.2	2148.4
42.5°	1353.9	1408.2	1545.4	1665.6	1730.7
45°	1084.9	1117.0	1209.6	1305.8	1340.5
47.5°	908.5	922.8	976.2	1037.7	1068.0
50°	777.6	786.5	815.0	848.9	868.5
52.5°	666.3	669.8	684.1	703.7	716.1
55°	565.6	564.7	575.4	583.4	593.2
57.5°	478.3	477.4	477.4	480.1	486.3
60°	403.5	400.8	400.8	397.3	399.0
62.5°	328.7	326.0	319.8	315.3	313.5
65°	220.9	220.0	214.7	202.2	203.1
67.5°	114.9	114.0	108.7	105.1	103.3
70°	61.5	59.7	57.0	54.3	52.6
72.5°	31.2	30.3	29.4	27.6	27.6
75°	16.0	16.0	15.1	14.3	14.3
77.5°	8.0	8.0	7.1	7.1	7.1
80°	4.5	4.5	3.6	3.6	3.6
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
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)