

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: P247706

Luminaire Tested: **LD8B80D010 ER8B80950 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80950 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7982.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

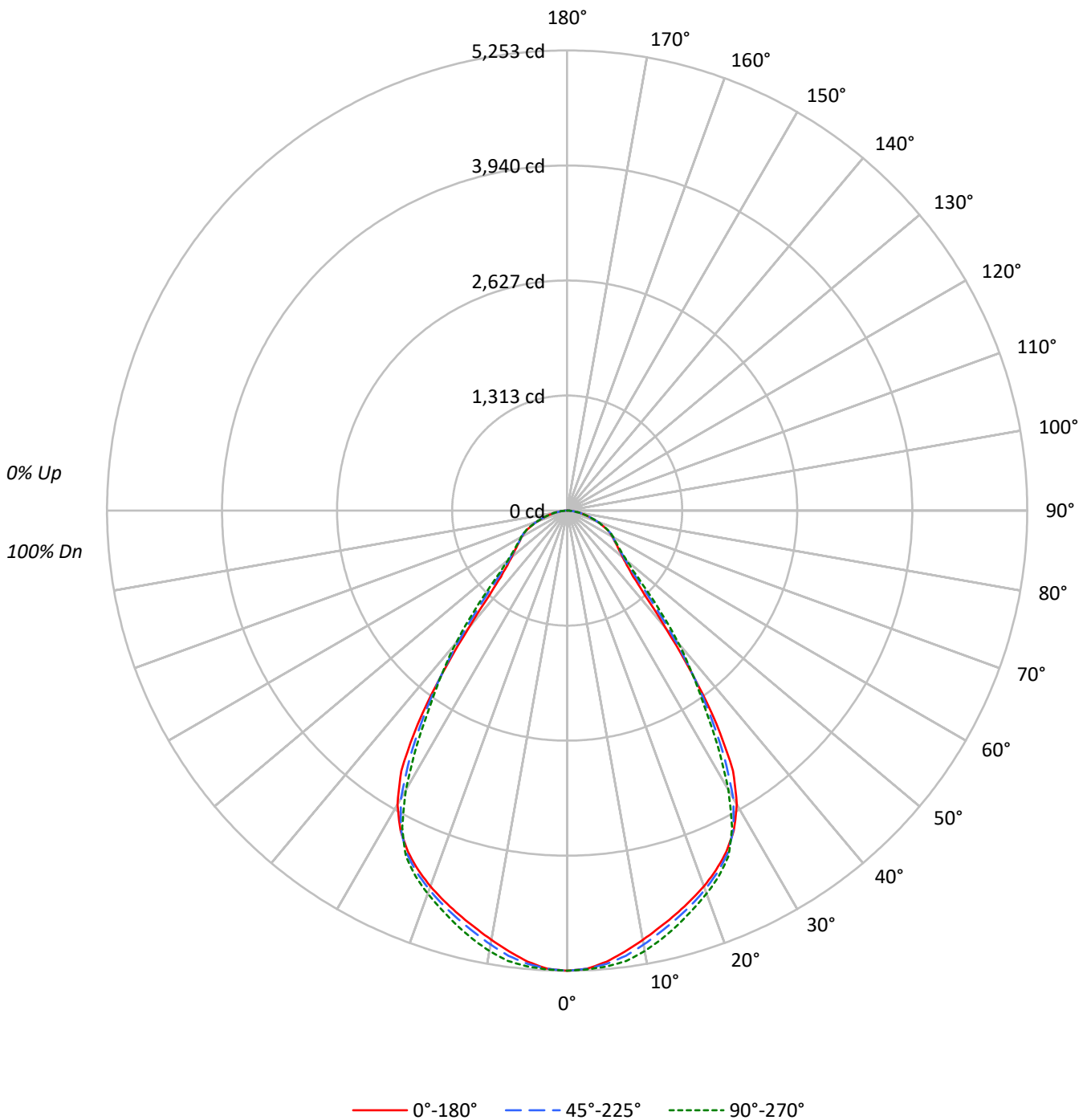
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	161974	161974	161974
5°	159996	160766	161679
10°	155812	157543	159854
15°	152409	154027	156237
20°	149795	151065	152729
25°	146276	147185	148158
30°	137908	134953	130983
35°	111954	106921	102825
40°	70010	75987	79663
45°	46649	51031	55375
50°	39769	40964	42379
55°	37181	37681	38224
60°	36856	37084	37423
65°	35928	36337	36607
70°	32593	32845	33088
75°	28451	28785	28892
80°	24240	24240	24897
85°	19566	19566	19566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.8	6.1
10°-20°	1361.8	17.1
20°-30°	1968.7	24.7
30°-40°	1761.9	22.1
40°-50°	953.5	11.9
50°-60°	635.5	8.0
60°-70°	486.7	6.1
70°-80°	257.9	3.2
80°-90°	65.2	0.8
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°	3821.3	47.9
0°-40°	5583.2	69.9
0°-60°	7172.2	89.9
0°-90°	7982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5253	5253	5253	5253	5253	
5°	5169	5172	5194	5214	5223	487
15°	4774	4783	4825	4872	4894	1347
25°	4299	4309	4326	4346	4354	1967
35°	2974	2944	2840	2758	2732	1800
45°	1070	1101	1170	1243	1270	880
55°	692	694	701	708	711	626
65°	492	494	498	502	502	483
75°	239	239	242	242	242	256
85°	55	55	55	56	55	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5252.7	5252.7	5252.7	5252.7	5252.7
2.5°	5235.2	5233.4	5234.3	5239.8	5242.6
5°	5168.8	5171.6	5193.7	5214.0	5223.2
7.5°	5075.7	5087.6	5125.5	5165.1	5185.4
10°	4976.1	4988.1	5031.4	5087.6	5105.2
12.5°	4873.7	4888.5	4927.2	4984.4	5005.6
15°	4774.1	4783.3	4824.8	4871.9	4894.0
17.5°	4671.7	4681.0	4718.8	4755.7	4773.2
20°	4564.8	4574.9	4603.5	4634.9	4654.2
22.5°	4442.1	4452.3	4476.2	4503.9	4521.4
25°	4299.2	4309.3	4325.9	4346.2	4354.5
27.5°	4118.4	4124.9	4109.2	4092.6	4077.9
30°	3873.1	3852.9	3790.1	3709.9	3678.6
32.5°	3524.6	3459.1	3338.3	3240.5	3204.6
35°	2974.0	2943.6	2840.3	2758.2	2731.5
37.5°	2332.2	2352.5	2345.1	2339.6	2345.1
40°	1739.2	1786.3	1887.7	1956.9	1979.0
42.5°	1316.9	1362.1	1476.4	1572.3	1605.5
45°	1069.7	1101.1	1170.2	1243.1	1269.8
47.5°	923.1	940.6	975.7	1014.4	1027.3
50°	829.0	836.4	853.9	876.1	883.4
52.5°	754.3	758.0	768.2	780.2	782.0
55°	691.6	694.4	700.9	708.2	711.0
57.5°	639.1	641.8	643.7	648.3	650.1
60°	597.6	597.6	601.3	604.9	606.8
62.5°	552.4	552.4	556.1	559.8	559.8
65°	492.4	494.3	498.0	501.7	501.7
67.5°	427.0	427.9	430.7	434.3	433.4
70°	361.5	361.5	364.3	366.1	367.0
72.5°	298.8	297.9	302.5	303.4	300.6
75°	238.8	238.8	241.6	242.5	242.5
77.5°	186.3	185.4	185.4	186.3	187.2
80°	136.5	137.4	136.5	138.3	140.2
82.5°	95.0	94.1	94.1	94.1	93.1
85°	55.3	55.3	55.3	56.3	55.3
87.5°	22.1	22.1	21.2	21.2	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)