

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: P247475

Luminaire Tested: **LD8B90D010 ER8B909730 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B909730 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7743.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

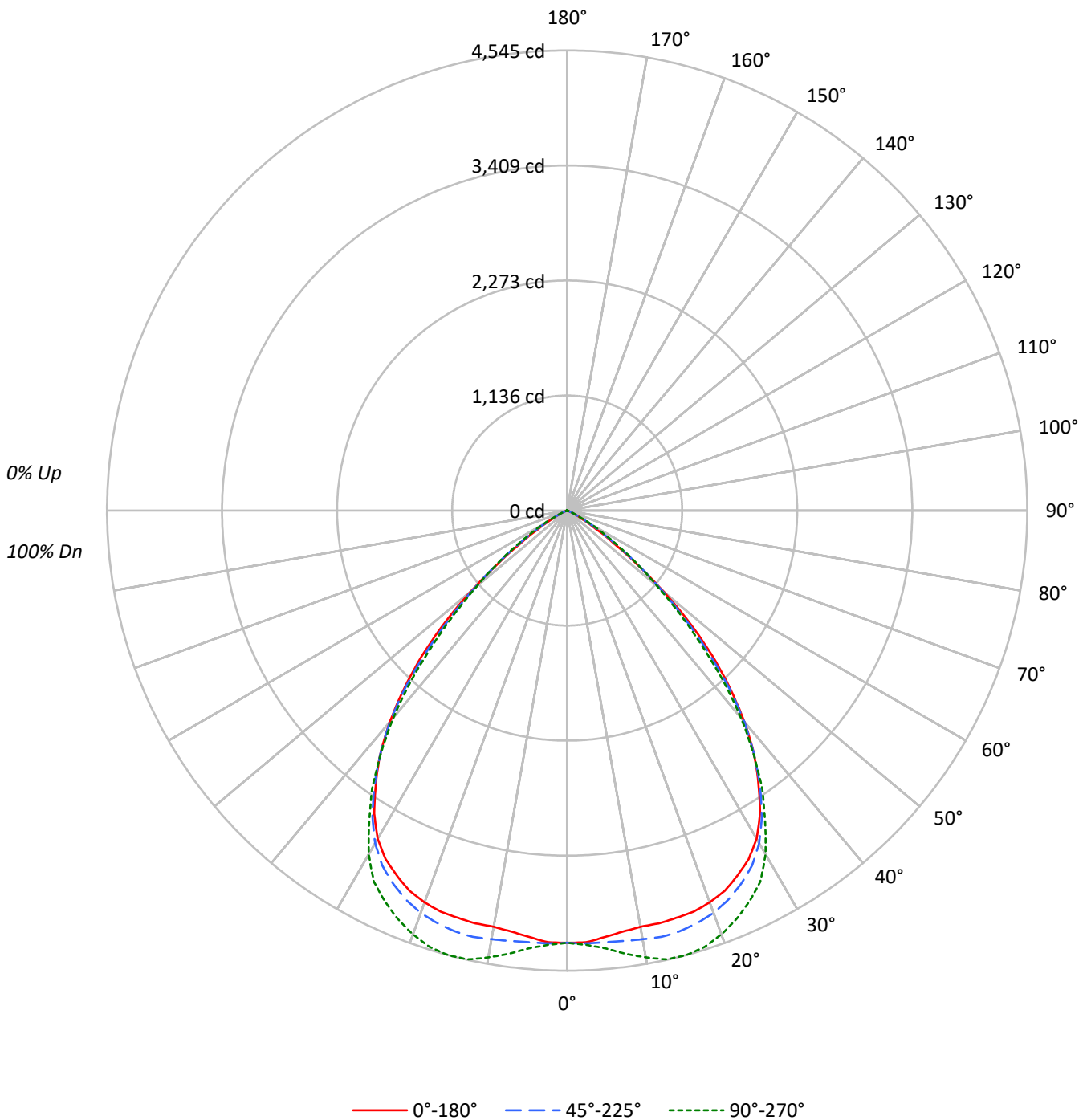
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.9	5.3
10°-20°	1221.7	15.8
20°-30°	1880.0	24.3
30°-40°	2059.0	26.6
40°-50°	1497.1	19.3
50°-60°	575.9	7.4
60°-70°	90.2	1.2
70°-80°	6.5	0.1
80°-90°	2.6	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°	3511.6	45.4
0°-40°	5570.6	71.9
0°-60°	7643.7	98.7
0°-90°	7743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7743.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4269	4269	4269	4269	4269	
5°	4229	4251	4280	4320	4340	402
15°	4165	4198	4301	4461	4545	1178
25°	3979	4003	4066	4187	4259	1830
35°	3296	3296	3317	3338	3359	2047
45°	2025	2005	1950	1900	1874	1540
55°	560	575	608	628	646	547
65°	63	66	67	76	79	77
75°	5	11	8	11	11	6
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4269.0	4269.0	4269.0	4269.0	4269.0
2.5°	4268.2	4274.8	4279.0	4288.1	4292.2
5°	4229.2	4250.7	4279.8	4320.4	4339.5
7.5°	4195.2	4225.0	4287.3	4375.2	4414.2
10°	4173.6	4205.9	4298.9	4418.4	4481.4
12.5°	4176.1	4211.8	4312.2	4455.7	4540.3
15°	4165.3	4197.6	4301.4	4460.7	4545.3
17.5°	4152.8	4179.4	4271.5	4427.5	4518.8
20°	4118.0	4140.4	4228.3	4369.4	4454.0
22.5°	4065.7	4086.5	4159.5	4290.6	4368.6
25°	3978.6	4002.7	4066.5	4186.9	4259.0
27.5°	3881.5	3895.6	3954.5	4064.1	4132.9
30°	3743.8	3748.8	3792.7	3877.4	3918.9
32.5°	3547.1	3546.3	3579.5	3621.8	3637.6
35°	3295.7	3295.7	3317.3	3338.0	3358.8
37.5°	3034.4	3031.0	3033.5	3038.5	3021.1
40°	2724.0	2717.4	2720.7	2690.8	2671.8
42.5°	2383.8	2389.6	2356.5	2303.4	2283.4
45°	2025.4	2004.6	1949.9	1900.1	1874.4
47.5°	1644.5	1612.2	1559.9	1508.5	1504.3
50°	1236.3	1238.0	1204.0	1174.9	1163.3
52.5°	857.9	867.1	884.5	887.8	892.0
55°	560.1	575.0	608.2	628.1	645.5
57.5°	342.7	370.1	398.3	435.6	438.9
60°	200.0	213.2	244.8	273.0	285.4
62.5°	112.8	125.3	131.9	148.5	152.7
65°	63.1	65.5	67.2	76.3	78.8
67.5°	38.2	39.8	41.5	40.7	42.3
70°	3.3	7.5	3.3	4.1	2.5
72.5°	14.1	9.1	10.0	7.5	5.0
75°	5.0	10.8	8.3	10.8	10.8
77.5°	3.3	2.5	4.1	5.0	4.1
80°	0.8	0.0	0.0	0.0	0.0
82.5°	7.5	6.6	4.1	6.6	2.5
85°	1.7	0.0	0.0	0.0	1.7
87.5°	5.0	2.5	2.5	5.8	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)