

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: P247348

Luminaire Tested: **LD8B100D010 ER8B100840 8LBSOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247348  
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: LD8B100D010 ER8B100840 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11575.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 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

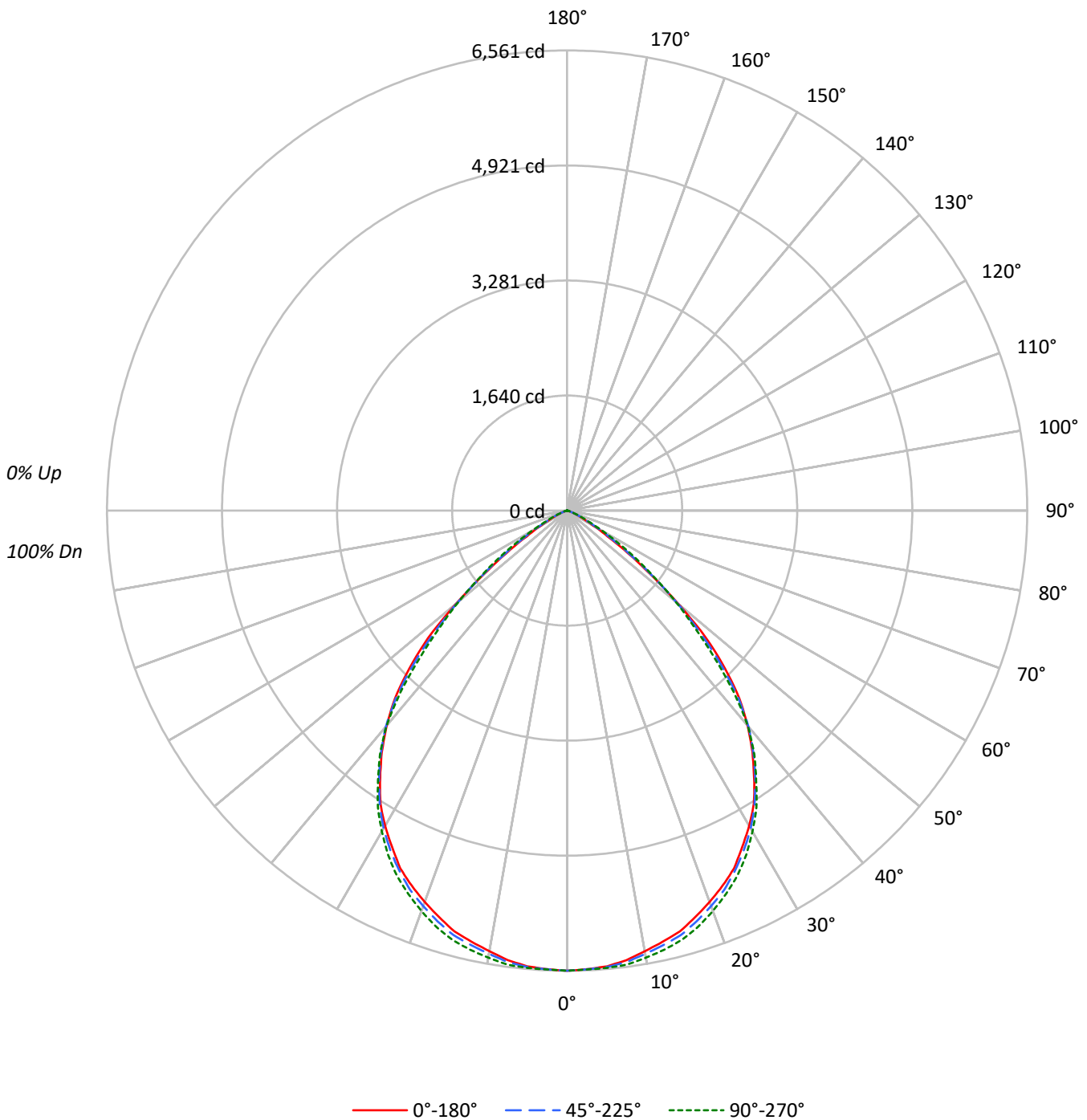
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	202314	202314	202314
5°	201889	202208	202567
10°	199736	200907	202686
15°	198322	200052	202198
20°	194877	196912	199327
25°	191515	192743	195424
30°	184884	186355	188103
35°	174955	176024	176947
40°	161100	161881	161467
45°	138891	135232	129829
50°	99155	97668	96492
55°	56912	60315	65309
60°	26994	31607	36547
65°	12718	15352	17614
70°	5932	6636	7564
75°	2764	4003	4611
80°	2291	2060	3214
85°	920	2300	1380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	619.9	5.4
10°-20°	1764.0	15.2
20°-30°	2606.0	22.5
30°-40°	2912.1	25.2
40°-50°	2351.0	20.3
50°-60°	1045.7	9.0
60°-70°	235.5	2.0
70°-80°	36.4	0.3
80°-90°	4.3	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°	4990.0	43.1
0°-40°	7902.1	68.3
0°-60°	11298.8	97.6
0°-90°	11575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11575.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6561	6561	6561	6561	6561	
5°	6522	6521	6532	6534	6544	618
15°	6212	6216	6266	6313	6334	1747
25°	5629	5629	5665	5711	5744	2581
35°	4648	4645	4676	4681	4700	2897
45°	3185	3160	3101	2991	2977	2408
55°	1059	1074	1122	1180	1215	996
65°	174	196	210	228	241	203
75°	23	32	34	32	39	30
85°	3	4	6	14	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6560.9	6560.9	6560.9	6560.9	6560.9
2.5°	6544.1	6540.2	6546.7	6542.8	6549.3
5°	6522.2	6520.9	6532.5	6533.8	6544.1
7.5°	6465.4	6466.6	6491.2	6509.2	6529.9
10°	6378.9	6384.0	6416.3	6456.3	6473.1
12.5°	6296.2	6302.7	6344.0	6399.5	6412.4
15°	6212.3	6216.2	6266.5	6313.0	6333.7
17.5°	6075.5	6101.3	6140.0	6192.9	6220.1
20°	5938.6	5956.7	6000.6	6058.7	6074.2
22.5°	5788.9	5808.2	5852.1	5899.9	5916.7
25°	5628.8	5628.8	5664.9	5711.4	5743.7
27.5°	5405.4	5432.5	5458.4	5499.7	5532.0
30°	5192.4	5202.7	5233.7	5267.3	5282.8
32.5°	4956.2	4957.5	4971.7	5009.1	5023.3
35°	4647.6	4645.0	4676.0	4681.2	4700.5
37.5°	4339.1	4352.0	4363.6	4381.7	4383.0
40°	4002.1	4008.6	4021.5	4002.1	4011.2
42.5°	3635.5	3626.4	3601.9	3543.8	3519.3
45°	3184.9	3160.4	3101.0	2991.3	2977.1
47.5°	2687.9	2627.2	2554.9	2473.6	2458.1
50°	2066.9	2072.1	2035.9	2008.8	2011.4
52.5°	1506.6	1524.7	1533.7	1559.5	1573.7
55°	1058.6	1074.1	1121.9	1180.0	1214.8
57.5°	685.5	715.2	777.2	843.0	867.6
60°	437.7	457.0	512.5	560.3	592.6
62.5°	286.6	293.1	324.0	367.9	369.2
65°	174.3	196.2	210.4	228.5	241.4
67.5°	113.6	113.6	126.5	143.3	147.2
70°	65.8	67.1	73.6	80.0	83.9
72.5°	36.1	40.0	43.9	50.3	56.8
75°	23.2	32.3	33.6	32.3	38.7
77.5°	15.5	15.5	12.9	21.9	23.2
80°	12.9	9.0	11.6	16.8	18.1
82.5°	0.0	1.3	1.3	2.6	0.0
85°	2.6	3.9	6.5	14.2	3.9
87.5°	0.0	3.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)