

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: P247587

Luminaire Tested: **LD8B90D010 ER8B90840 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90840 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6188.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

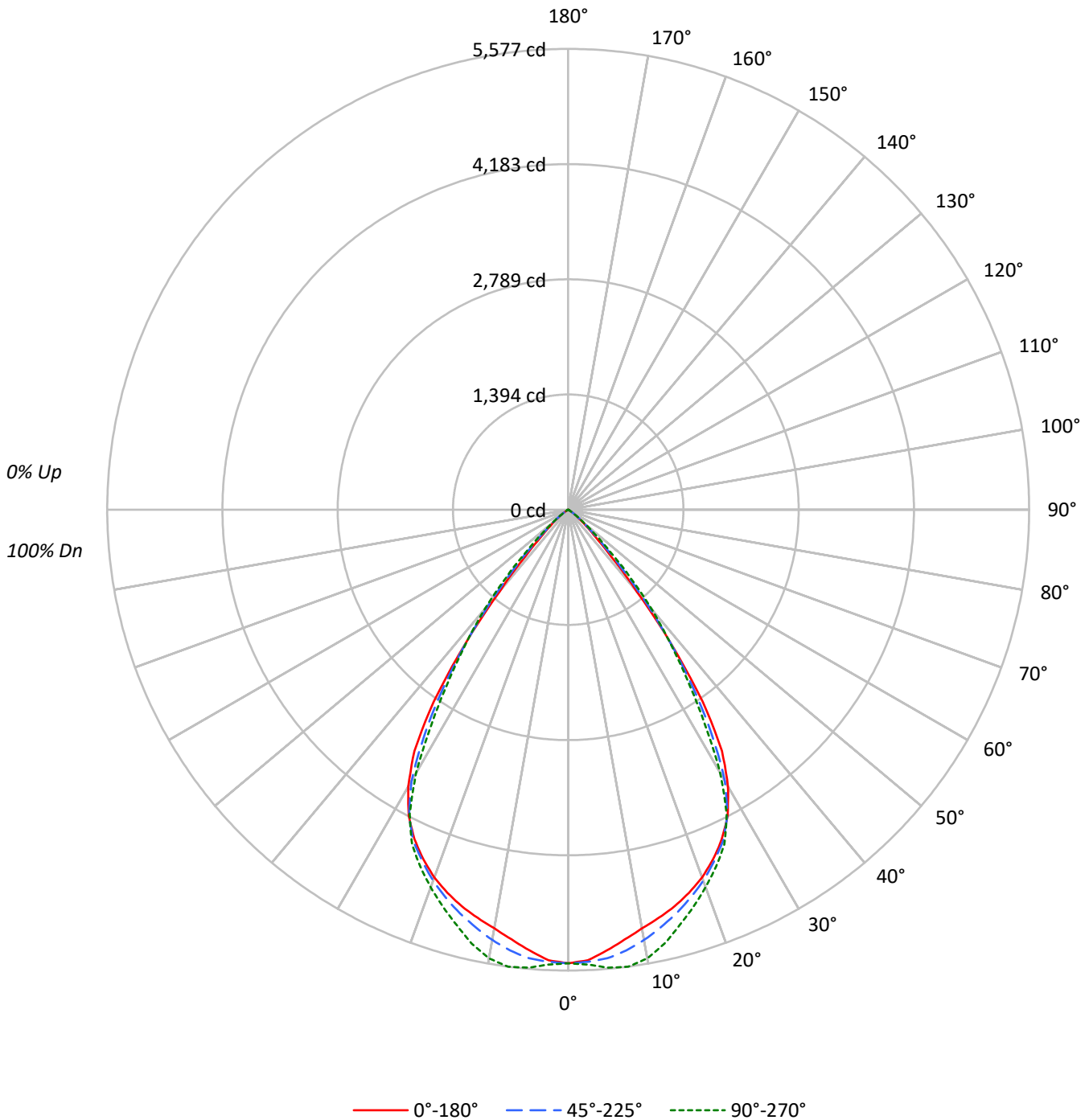
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

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

	0°	45°	90°
0°	169248	169248	169248
5°	165775	168684	172216
10°	161103	165587	172633
15°	158644	161466	166219
20°	155400	156831	159548
25°	149662	150730	152061
30°	137698	135028	131047
35°	106699	99411	94442
40°	51847	58827	63018
45°	20056	25812	31281
50°	9393	10736	12291
55°	3908	4210	4333
60°	1314	1240	1172
65°	161	248	248
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.9	8.3
10°-20°	1427.7	23.1
20°-30°	2011.8	32.5
30°-40°	1627.6	26.3
40°-50°	516.7	8.3
50°-60°	82.6	1.3
60°-70°	5.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3955.5	63.9
0°-40°	5583.1	90.2
0°-60°	6182.4	99.9
0°-90°	6188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6188.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5489	5489	5489	5489	5489	
5°	5356	5380	5450	5529	5564	505
15°	4969	4988	5058	5154	5207	1399
25°	4399	4407	4430	4455	4469	2009
35°	2834	2757	2641	2546	2509	1681
45°	460	497	592	676	717	429
55°	73	74	78	82	81	76
65°	2	3	3	3	3	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5488.6	5488.6	5488.6	5488.6	5488.6
2.5°	5457.3	5462.9	5476.3	5502.1	5509.9
5°	5355.5	5380.1	5449.5	5528.9	5563.6
7.5°	5245.8	5278.3	5380.1	5514.4	5577.0
10°	5145.1	5179.8	5288.3	5431.6	5513.3
12.5°	5060.1	5086.9	5175.3	5304.0	5380.1
15°	4969.4	4988.4	5057.8	5154.1	5206.7
17.5°	4860.9	4877.7	4923.5	4998.5	5038.8
20°	4735.6	4740.0	4779.2	4827.3	4862.0
22.5°	4580.0	4584.5	4606.9	4652.8	4676.2
25°	4398.7	4406.6	4430.1	4454.7	4469.2
27.5°	4176.1	4179.4	4168.2	4148.1	4152.6
30°	3867.2	3854.9	3792.2	3706.1	3680.4
32.5°	3462.1	3380.5	3245.1	3124.2	3075.0
35°	2834.4	2757.2	2640.8	2545.7	2508.8
37.5°	2036.6	2042.2	2034.3	2013.1	2017.5
40°	1288.0	1339.4	1461.4	1540.8	1565.5
42.5°	773.2	829.2	963.4	1070.9	1105.6
45°	459.9	496.8	591.9	675.9	717.3
47.5°	295.4	313.3	360.3	409.5	433.0
50°	195.8	204.8	223.8	246.2	256.2
52.5°	125.3	128.7	137.6	145.5	153.3
55°	72.7	73.9	78.3	81.7	80.6
57.5°	38.0	38.0	38.0	38.0	38.0
60°	21.3	20.1	20.1	20.1	19.0
62.5°	10.1	10.1	10.1	9.0	9.0
65°	2.2	3.4	3.4	3.4	3.4
67.5°	0.0	0.0	0.0	0.0	1.1
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)