

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: P247239

Luminaire Tested: **LD8B90D010 ER8B90827 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90827 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8717.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

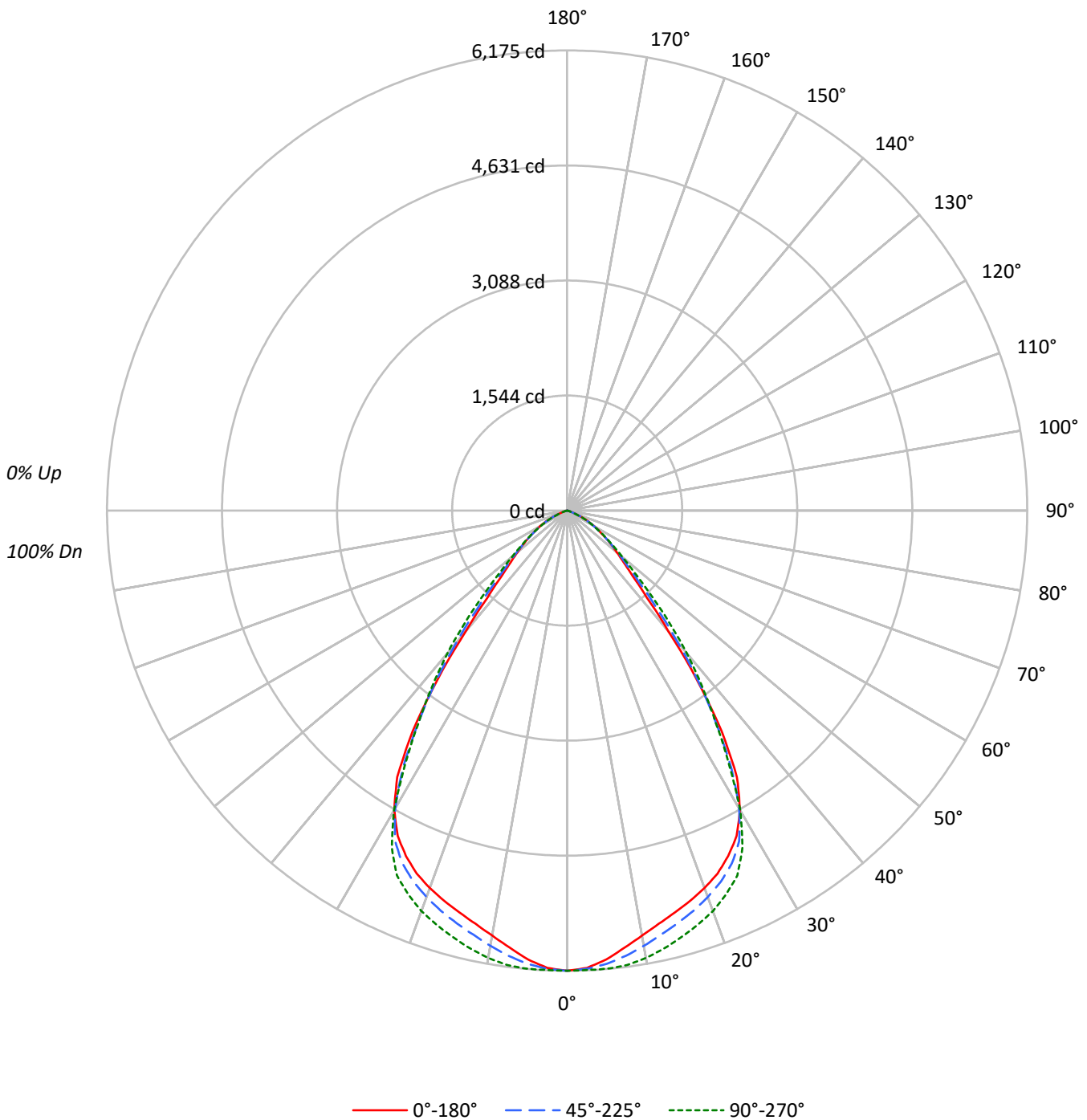
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	190411	190411	190411
5°	187149	188947	191043
10°	181306	185708	190869
15°	178239	182963	189201
20°	176835	181101	187654
25°	174037	177885	183853
30°	165126	164450	165504
35°	136114	131299	130983
40°	85278	92894	100591
45°	54049	60085	67642
50°	41616	43238	46279
55°	32945	32832	34026
60°	25674	25156	25021
65°	17271	16578	16111
70°	7907	7240	6861
75°	3777	3396	3145
80°	1882	1687	1687
85°	1132	1132	743



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.5	6.6
10°-20°	1621.6	18.6
20°-30°	2388.2	27.4
30°-40°	2172.1	24.9
40°-50°	1124.4	12.9
50°-60°	563.3	6.5
60°-70°	229.4	2.6
70°-80°	36.6	0.4
80°-90°	3.9	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°	4587.2	52.6
0°-40°	6759.3	77.5
0°-60°	8447.0	96.9
0°-90°	8717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6175	6175	6175	6175	6175	
5°	6046	6062	6104	6151	6172	569
15°	5583	5621	5731	5863	5927	1578
25°	5115	5150	5228	5348	5404	2342
35°	3616	3592	3488	3458	3480	2180
45°	1239	1283	1378	1485	1551	1021
55°	613	611	611	622	633	557
65°	237	236	227	224	221	239
75°	32	31	28	26	26	40
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6174.9	6174.9	6174.9	6174.9	6174.9
2.5°	6142.2	6145.4	6153.8	6163.3	6170.7
5°	6046.0	6061.9	6104.1	6150.6	6171.8
7.5°	5915.0	5949.9	6027.0	6113.7	6151.7
10°	5790.3	5830.5	5930.9	6047.1	6095.7
12.5°	5680.4	5719.5	5828.4	5958.3	6018.6
15°	5583.2	5621.3	5731.2	5863.2	5926.6
17.5°	5491.3	5526.2	5630.8	5762.9	5827.3
20°	5388.8	5419.4	5518.8	5646.6	5718.5
22.5°	5272.6	5295.8	5388.8	5510.3	5573.7
25°	5115.1	5150.0	5228.2	5347.6	5403.6
27.5°	4922.8	4945.0	4998.9	5071.8	5095.1
30°	4637.5	4636.5	4618.5	4618.5	4648.1
32.5°	4241.3	4190.6	4105.0	4053.2	4049.0
35°	3615.8	3592.5	3487.9	3458.3	3479.5
37.5°	2852.9	2868.7	2895.2	2937.4	2975.5
40°	2118.5	2158.7	2307.7	2440.8	2498.9
42.5°	1580.7	1632.5	1784.6	1930.5	2001.3
45°	1239.4	1282.7	1377.8	1484.6	1551.1
47.5°	1024.9	1047.1	1097.8	1169.7	1203.5
50°	867.5	878.1	901.3	938.3	964.7
52.5°	736.5	732.2	744.9	769.2	778.7
55°	612.8	610.7	610.7	622.4	632.9
57.5°	508.2	505.1	498.7	504.0	507.2
60°	416.3	413.1	407.9	406.8	405.7
62.5°	335.0	329.7	319.1	317.0	317.0
65°	236.7	235.6	227.2	224.0	220.8
67.5°	146.9	142.6	135.2	128.9	127.9
70°	87.7	86.6	80.3	76.1	76.1
72.5°	52.8	50.7	47.5	45.4	44.4
75°	31.7	30.6	28.5	26.4	26.4
77.5°	19.0	18.0	16.9	15.8	15.8
80°	10.6	10.6	9.5	9.5	9.5
82.5°	6.3	6.3	5.3	5.3	5.3
85°	3.2	3.2	3.2	2.1	2.1
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)