

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: P248169

Luminaire Tested: **LD8B175D010 ER8B175835 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175835 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16395.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

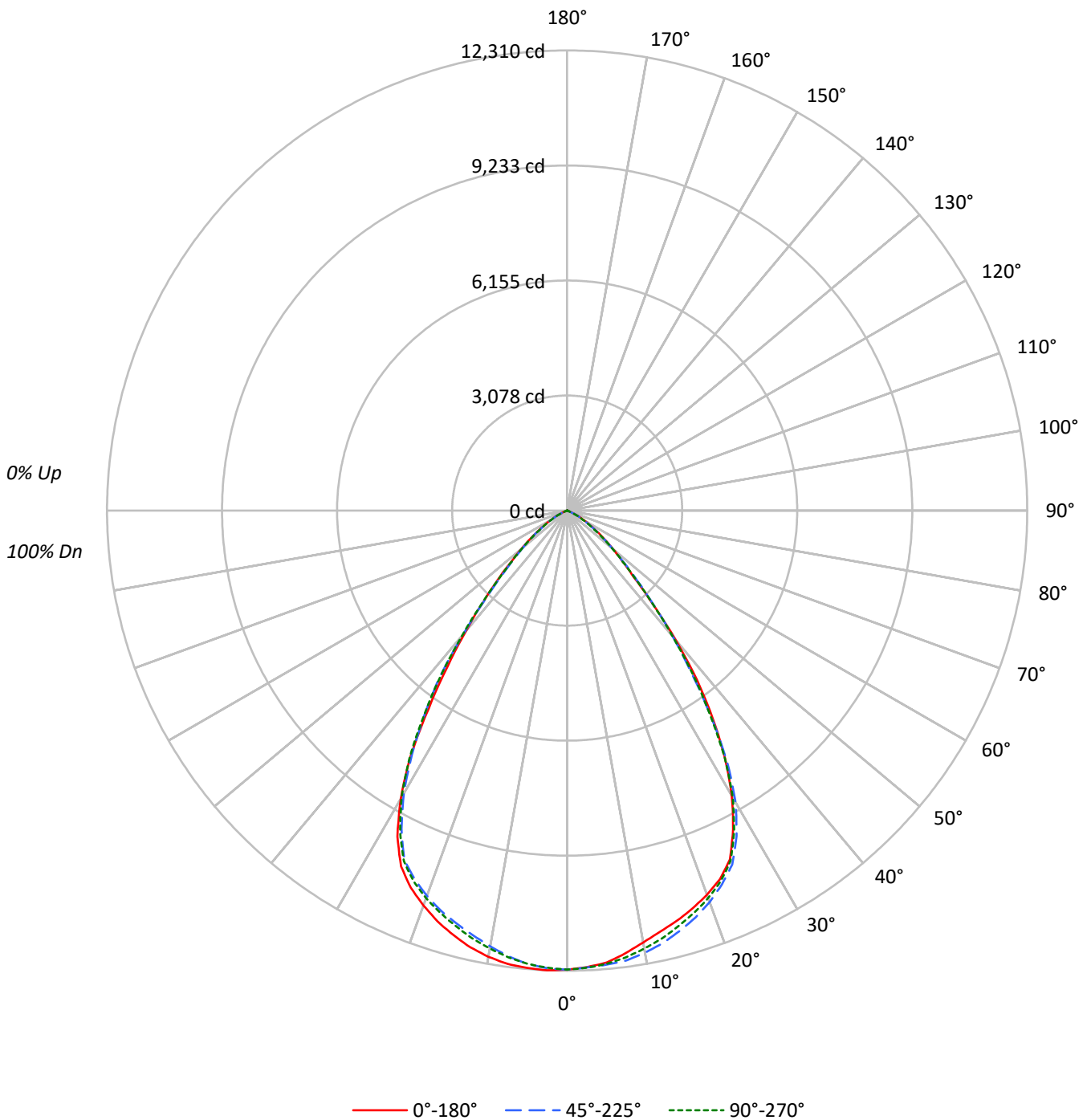
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	378658	378658	378658
5°	375736	376786	380209
10°	367284	372478	379549
15°	362568	367434	375328
20°	358868	362019	368798
25°	350462	351884	357491
30°	313695	315305	317074
35°	255653	250511	243114
40°	181296	176252	169751
45°	110536	112407	114675
50°	76373	74962	76536
55°	51837	48197	49713
60°	33630	29313	30775
65°	17709	14090	15155
70°	4679	3967	3561
75°	810	1608	941
80°	0	0	408
85°	814	814	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1154.6	7.0
10°-20°	3252.6	19.8
20°-30°	4690.3	28.6
30°-40°	4119.2	25.1
40°-50°	2082.9	12.7
50°-60°	852.6	5.2
60°-70°	224.1	1.4
70°-80°	15.8	0.1
80°-90°	2.8	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°	9097.6	55.5
0°-40°	13216.8	80.6
0°-60°	16152.2	98.5
0°-90°	16395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16395.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12280	12280	12280	12280	12280	
5°	12138	12194	12172	12172	12283	###
15°	11357	11638	11510	11435	11757	3205
25°	10300	10448	10342	10305	10507	4653
35°	6791	6675	6655	6626	6458	4187
45°	2535	2653	2578	2512	2630	2091
55°	964	926	896	894	925	891
65°	243	216	193	191	208	248
75°	7	4	14	4	8	17
85°	2	2	2	1	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12279.6	12279.6	12279.6	12279.6	12279.6	12279.6	12279.6	12279.6	12279.6
2.5°	12223.2	12283.0	12229.9	12261.5	12240.1	12205.1	12253.6	12231.1	12310.1
5°	12138.5	12210.7	12193.8	12233.3	12172.4	12108.0	12172.4	12178.0	12283.0
7.5°	11945.4	12069.6	12140.7	12188.2	12053.8	11948.8	12025.6	12094.4	12229.9
10°	11729.8	11879.9	12008.6	12082.0	11895.7	11742.2	11833.6	11951.1	12121.5
12.5°	11531.0	11697.0	11849.4	11920.6	11724.1	11551.4	11638.3	11784.0	11966.9
15°	11357.2	11493.8	11638.3	11711.7	11509.6	11345.9	11435.1	11569.4	11756.9
17.5°	11158.5	11287.2	11414.8	11472.3	11284.9	11142.7	11223.9	11339.1	11525.4
20°	10936.0	11046.7	11143.8	11211.5	11032.0	10896.5	10969.9	11077.2	11238.6
22.5°	10675.2	10758.8	10822.0	10883.0	10737.3	10603.0	10666.2	10750.9	10921.4
25°	10300.4	10385.1	10448.3	10517.2	10342.2	10227.0	10304.9	10341.0	10507.0
27.5°	9613.9	9721.2	9816.0	9877.0	9677.1	9577.8	9598.1	9657.9	9834.1
30°	8810.0	8862.0	9006.5	9024.5	8855.2	8682.4	8737.8	8801.0	8904.9
32.5°	7854.8	7884.2	7967.7	7976.8	7850.3	7717.1	7718.2	7690.0	7795.0
35°	6791.3	6724.7	6675.0	6708.9	6654.7	6678.4	6626.4	6496.6	6458.2
37.5°	5692.7	5649.8	5431.9	5415.0	5541.4	5618.2	5567.4	5278.3	5258.0
40°	4503.8	4455.3	4374.0	4361.5	4378.5	4422.5	4328.8	4243.0	4217.0
42.5°	3370.2	3396.2	3422.2	3445.9	3397.3	3302.5	3298.0	3282.2	3343.1
45°	2534.7	2590.1	2653.3	2684.9	2577.6	2504.2	2512.1	2547.2	2629.6
47.5°	2004.1	2015.4	2039.1	2066.2	2002.9	1909.2	1934.1	1990.5	2026.7
50°	1592.0	1603.3	1596.5	1593.1	1562.6	1506.2	1541.2	1582.9	1595.4
52.5°	1255.5	1240.8	1228.4	1220.5	1201.3	1178.7	1185.5	1220.5	1239.7
55°	964.2	952.9	925.8	914.5	896.5	890.8	894.2	921.3	924.7
57.5°	724.9	709.0	681.9	660.5	661.6	652.6	657.1	676.3	686.5
60°	545.3	535.2	487.8	491.1	475.3	473.1	483.2	494.5	499.0
62.5°	377.1	380.5	344.4	339.8	331.9	333.1	339.8	348.9	350.0
65°	242.7	228.1	215.6	206.6	193.1	186.3	190.8	215.6	207.7
67.5°	94.8	100.5	81.3	94.8	88.1	74.5	85.8	96.0	91.5
70°	51.9	53.1	44.0	41.8	44.0	40.6	46.3	51.9	39.5
72.5°	32.7	32.7	23.7	23.7	30.5	20.3	23.7	37.3	29.4
75°	6.8	7.9	4.5	2.3	13.5	6.8	4.5	13.5	7.9
77.5°	0.0	7.9	0.0	0.0	0.0	0.0	2.3	2.3	2.3
80°	0.0	0.0	0.0	3.4	0.0	0.0	0.0	2.3	2.3
82.5°	0.0	2.3	0.0	0.0	0.0	0.0	0.0	2.3	0.0
85°	2.3	9.0	2.3	0.0	2.3	2.3	1.1	6.8	2.3
87.5°	14.7	6.8	1.1	6.8	5.6	6.8	7.9	6.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)