

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: P248172

Luminaire Tested: **LD8B175D010 ER8B175840 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248172
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 ER8B175840 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16287.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

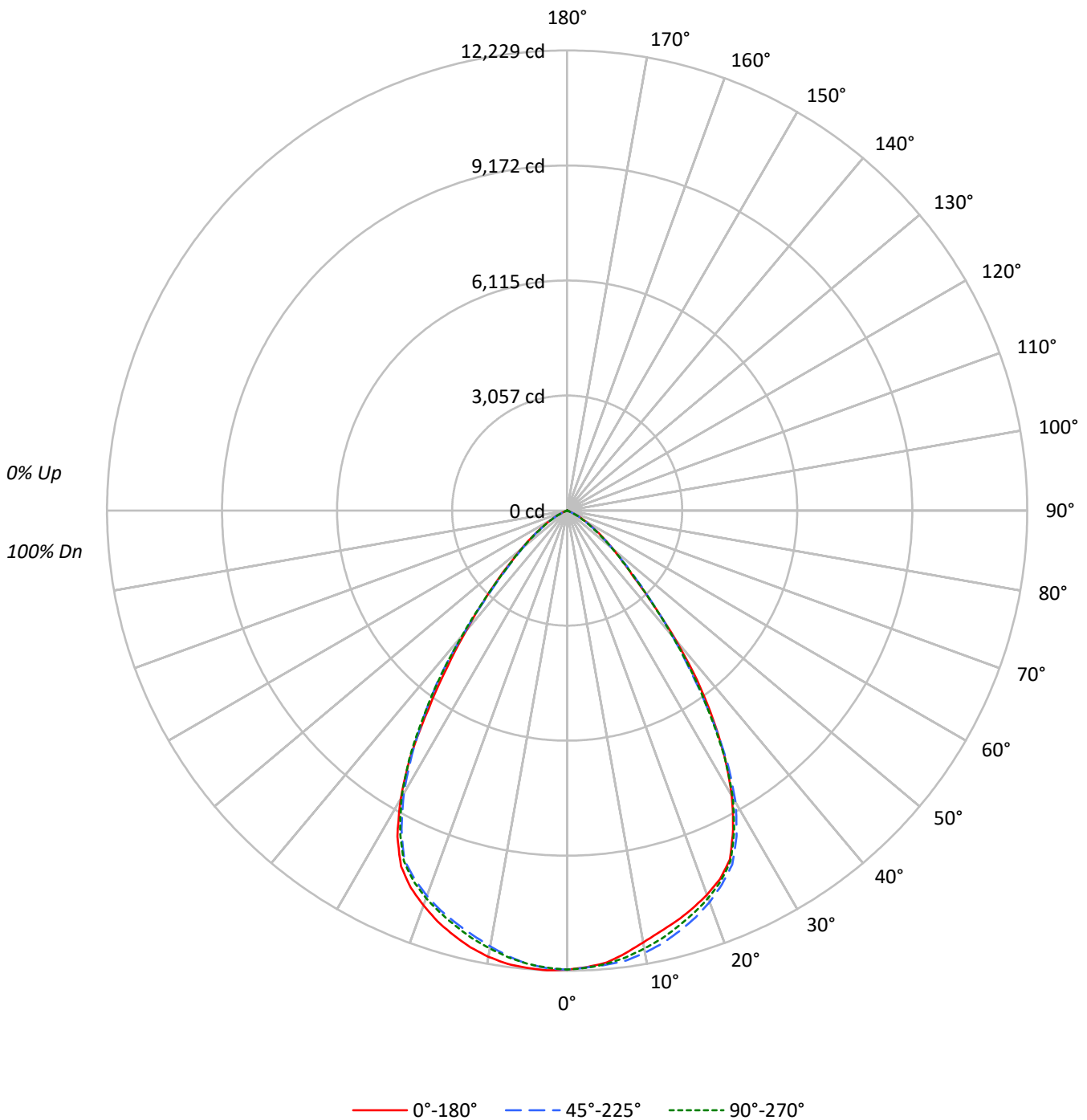
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	376163	376163	376163
5°	373260	374303	377705
10°	364863	370027	377050
15°	360180	365014	372854
20°	356506	359633	366370
25°	348152	349564	355137
30°	311630	313229	314984
35°	253967	248858	241514
40°	180100	175089	168632
45°	109808	111670	113916
50°	75869	74468	76027
55°	51498	47880	49385
60°	33408	29122	30577
65°	17592	13995	15060
70°	4652	3940	3543
75°	798	1608	941
80°	0	0	391
85°	778	778	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1147.0	7.0
10°-20°	3231.2	19.8
20°-30°	4659.4	28.6
30°-40°	4092.1	25.1
40°-50°	2069.2	12.7
50°-60°	846.9	5.2
60°-70°	222.6	1.4
70°-80°	15.7	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°	9037.6	55.5
0°-40°	13129.7	80.6
0°-60°	16045.8	98.5
0°-90°	16287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16287.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12199	12199	12199	12199	12199	
5°	12058	12114	12092	12092	12202	###
15°	11282	11562	11434	11360	11679	3184
25°	10232	10380	10274	10237	10438	4623
35°	6746	6631	6611	6583	6416	4159
45°	2518	2636	2561	2496	2612	2077
55°	958	920	891	888	919	885
65°	241	214	192	190	206	246
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°	12198.7	12198.7	12198.7	12198.7	12198.7	12198.7	12198.7	12198.7	12198.7
2.5°	12142.6	12202.1	12149.4	12180.8	12159.5	12124.7	12172.9	12150.5	12229.0
5°	12058.5	12130.3	12113.5	12152.7	12092.2	12028.2	12092.2	12097.8	12202.1
7.5°	11866.7	11990.1	12060.8	12107.9	11974.4	11870.1	11946.4	12014.8	12149.4
10°	11652.5	11801.7	11929.5	12002.4	11817.4	11664.8	11755.7	11872.3	12041.7
12.5°	11455.1	11620.0	11771.4	11842.0	11646.9	11475.3	11561.6	11706.3	11888.0
15°	11282.4	11418.1	11561.6	11634.5	11433.8	11271.1	11359.8	11493.2	11679.4
17.5°	11085.0	11212.8	11339.6	11396.8	11210.6	11069.3	11150.0	11264.4	11449.5
20°	10864.0	10973.9	11070.4	11137.7	10959.3	10824.7	10897.6	11004.2	11164.6
22.5°	10604.9	10687.9	10750.7	10811.3	10666.6	10533.1	10595.9	10680.1	10849.4
25°	10232.5	10316.6	10379.5	10447.9	10274.0	10159.6	10237.0	10272.9	10437.8
27.5°	9550.6	9657.1	9751.4	9811.9	9613.4	9514.7	9534.9	9594.3	9769.3
30°	8752.0	8803.6	8947.2	8965.1	8796.9	8625.2	8680.2	8743.0	8846.2
32.5°	7803.1	7832.3	7915.3	7924.2	7798.6	7666.3	7667.4	7639.3	7743.7
35°	6746.5	6680.4	6631.0	6664.7	6610.8	6634.4	6582.8	6453.8	6415.7
37.5°	5655.2	5612.6	5396.1	5379.3	5504.9	5581.2	5530.7	5243.6	5223.4
40°	4474.1	4425.9	4345.1	4332.8	4349.6	4393.4	4300.3	4215.0	4189.2
42.5°	3348.0	3373.8	3399.6	3423.2	3374.9	3280.7	3276.2	3260.5	3321.1
45°	2518.0	2573.0	2635.8	2667.2	2560.7	2487.7	2495.6	2530.4	2612.2
47.5°	1990.9	2002.1	2025.6	2052.6	1989.8	1896.7	1921.3	1977.4	2013.3
50°	1581.5	1592.7	1586.0	1582.6	1552.3	1496.2	1531.0	1572.5	1584.8
52.5°	1247.2	1232.7	1220.3	1212.5	1193.4	1171.0	1177.7	1212.5	1231.5
55°	957.9	946.6	919.7	908.5	890.6	885.0	888.3	915.2	918.6
57.5°	720.1	704.4	677.5	656.1	657.3	648.3	652.8	671.8	681.9
60°	541.7	531.6	484.5	487.9	472.2	470.0	480.1	491.3	495.8
62.5°	374.6	378.0	342.1	337.6	329.8	330.9	337.6	346.6	347.7
65°	241.1	226.6	214.2	205.3	191.8	185.1	189.6	214.2	206.4
67.5°	94.2	99.8	80.8	94.2	87.5	74.0	85.2	95.3	90.9
70°	51.6	52.7	43.7	41.5	43.7	40.4	46.0	51.6	39.3
72.5°	32.5	32.5	23.6	23.6	30.3	20.2	23.6	37.0	29.2
75°	6.7	7.9	4.5	2.2	13.5	6.7	4.5	13.5	7.9
77.5°	0.0	7.9	0.0	0.0	0.0	0.0	2.2	2.2	2.2
80°	0.0	0.0	0.0	3.4	0.0	0.0	0.0	2.2	2.2
82.5°	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2	0.0
85°	2.2	9.0	2.2	0.0	2.2	2.2	1.1	6.7	2.2
87.5°	14.6	6.7	1.1	6.7	5.6	6.7	7.9	6.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)