

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: P247917

Luminaire Tested: **LD8B175D010 ER8B175835 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175835 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18367.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

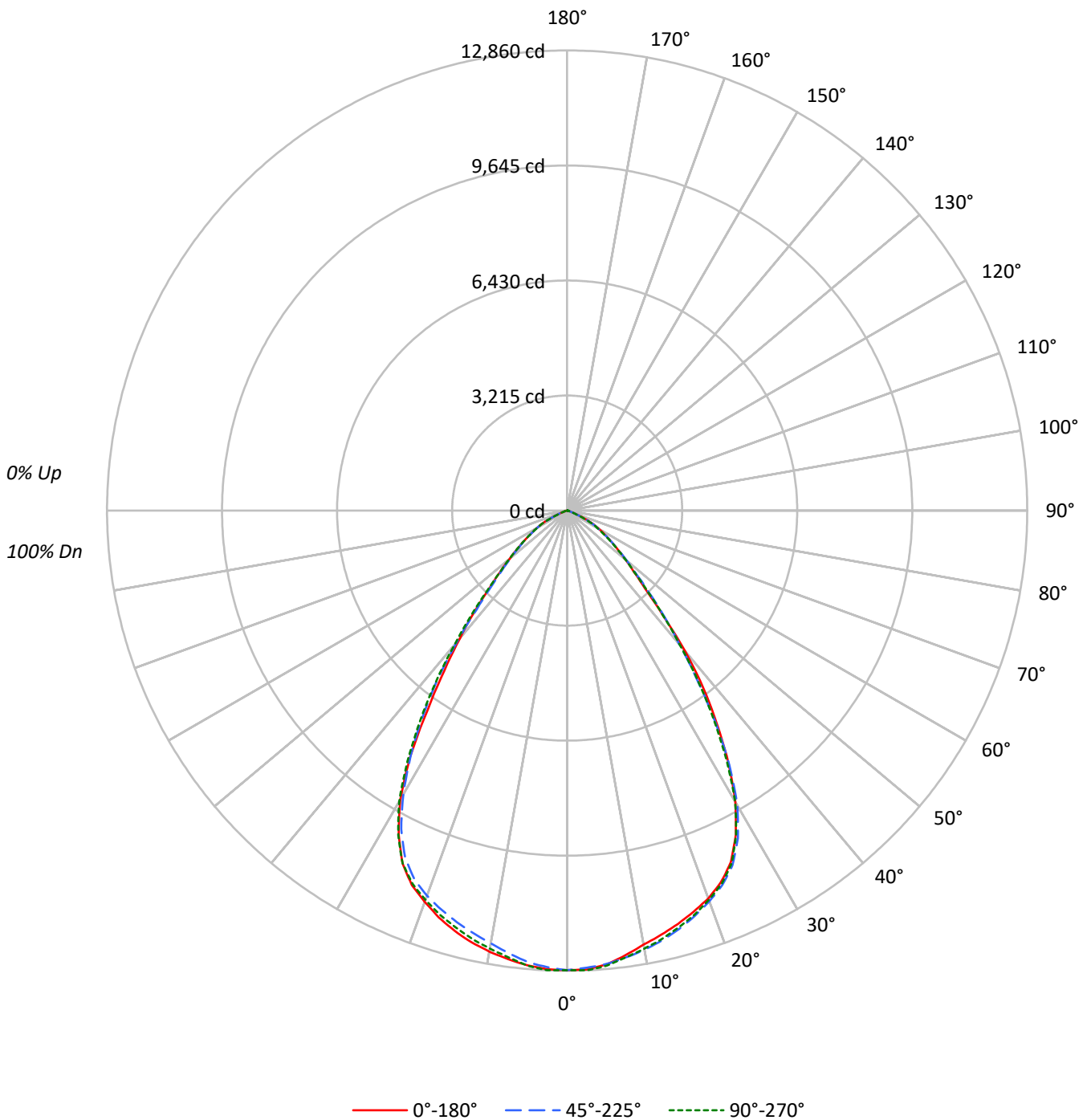
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	396052	396052	396052
5°	394002	395120	394909
10°	385582	389155	391876
15°	381803	384867	388076
20°	378531	379903	381793
25°	368580	370002	370312
30°	334550	334229	331976
35°	275450	269288	255815
40°	205967	196697	187789
45°	133379	136876	133771
50°	102096	101554	101122
55°	79997	78546	77873
60°	63640	60162	60994
65°	41765	36906	37314
70°	14966	13740	14254
75°	5385	6589	5385
80°	3410	4812	4013
85°	814	2406	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1203.0	6.5
10°-20°	3391.6	18.5
20°-30°	4917.2	26.8
30°-40°	4419.9	24.1
40°-50°	2490.7	13.6
50°-60°	1327.0	7.2
60°-70°	530.4	2.9
70°-80°	70.6	0.4
80°-90°	16.7	0.1
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°	9511.7	51.8
0°-40°	13931.6	75.9
0°-60°	17749.3	96.6
0°-90°	18367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18367.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12844	12844	12844	12844	12844	
5°	12729	12717	12765	12664	12758	###
15°	11960	12099	12056	11907	12156	3375
25°	10833	10935	10875	10706	10884	4917
35°	7317	7212	7154	7054	6796	4540
45°	3058	3224	3139	2991	3068	2512
55°	1488	1493	1461	1427	1448	1356
65°	572	545	506	491	511	567
75°	45	58	55	54	45	67
85°	2	14	7	19	4	7
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°	12843.7	12843.7	12843.7	12843.7	12843.7	12843.7	12843.7	12843.7	12843.7
2.5°	12834.7	12807.6	12787.3	12825.7	12859.5	12767.0	12773.7	12814.4	12827.9
5°	12728.6	12703.7	12717.3	12748.9	12764.7	12648.4	12664.2	12733.1	12757.9
7.5°	12529.9	12549.1	12597.6	12638.3	12590.8	12454.2	12476.8	12595.3	12643.9
10°	12314.2	12359.4	12461.0	12508.4	12428.3	12253.3	12279.2	12438.4	12515.2
12.5°	12142.6	12192.3	12298.4	12334.5	12263.4	12074.9	12102.0	12266.8	12358.3
15°	11959.7	12004.9	12098.6	12127.9	12055.7	11881.8	11906.6	12064.7	12156.2
17.5°	11753.1	11792.6	11876.2	11903.3	11840.0	11656.0	11695.5	11842.3	11922.5
20°	11535.2	11563.4	11622.1	11637.9	11577.0	11438.1	11456.2	11582.6	11634.6
22.5°	11238.3	11274.4	11328.6	11345.5	11289.1	11136.7	11153.6	11277.8	11334.2
25°	10832.9	10886.0	10934.6	10956.0	10874.7	10672.6	10706.5	10812.6	10883.8
27.5°	10204.1	10247.0	10332.8	10335.0	10223.3	10013.3	10041.5	10178.1	10196.2
30°	9395.7	9435.2	9510.9	9493.9	9386.7	9137.2	9159.7	9293.0	9323.4
32.5°	8405.6	8420.2	8440.6	8434.9	8303.9	8186.5	8140.2	8156.0	8167.3
35°	7317.2	7343.1	7212.2	7141.1	7153.5	7163.6	7054.1	6891.5	6795.6
37.5°	6262.7	6138.5	5977.0	5921.7	6024.5	6058.3	5959.0	5716.2	5627.0
40°	5116.7	5006.1	4878.5	4888.7	4886.4	4910.1	4784.8	4695.6	4665.1
42.5°	3938.0	3939.2	4022.7	3965.1	3953.8	3789.0	3740.4	3790.1	3844.3
45°	3058.5	3160.1	3224.5	3207.5	3138.7	2990.8	2990.8	3077.7	3067.5
47.5°	2517.7	2553.8	2602.4	2599.0	2549.3	2440.9	2459.0	2518.8	2549.3
50°	2128.2	2144.0	2166.6	2147.4	2116.9	2049.2	2048.0	2089.8	2107.9
52.5°	1780.5	1789.5	1783.9	1773.7	1756.8	1720.6	1709.3	1744.3	1748.9
55°	1488.0	1505.0	1492.6	1464.3	1461.0	1428.2	1427.1	1455.3	1448.5
57.5°	1239.7	1222.7	1205.8	1182.1	1178.7	1168.5	1179.8	1184.3	1177.6
60°	1031.9	1033.1	1000.3	977.7	975.5	960.8	976.6	989.0	989.0
62.5°	831.0	826.4	806.1	772.2	777.9	772.2	779.0	781.3	771.1
65°	572.4	573.5	545.3	504.7	505.8	501.3	491.1	506.9	511.4
67.5°	304.8	302.6	281.1	266.4	260.8	263.1	274.4	277.7	265.3
70°	166.0	160.3	164.8	149.0	152.4	146.8	152.4	161.4	158.1
72.5°	84.7	90.3	81.3	74.5	83.5	82.4	96.0	88.1	79.0
75°	45.2	48.5	57.6	53.1	55.3	53.1	54.2	50.8	45.2
77.5°	32.7	36.1	41.8	40.6	39.5	37.3	41.8	46.3	37.3
80°	19.2	23.7	26.0	30.5	27.1	30.5	35.0	28.2	22.6
82.5°	12.4	19.2	19.2	20.3	29.4	19.2	31.6	28.2	22.6
85°	2.3	3.4	13.5	7.9	6.8	20.3	19.2	14.7	4.5
87.5°	0.0	7.9	18.1	9.0	14.7	13.5	19.2	20.3	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)