

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: P248058

Luminaire Tested: **LD8B175D010 ER8B175830 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175830 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18799.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

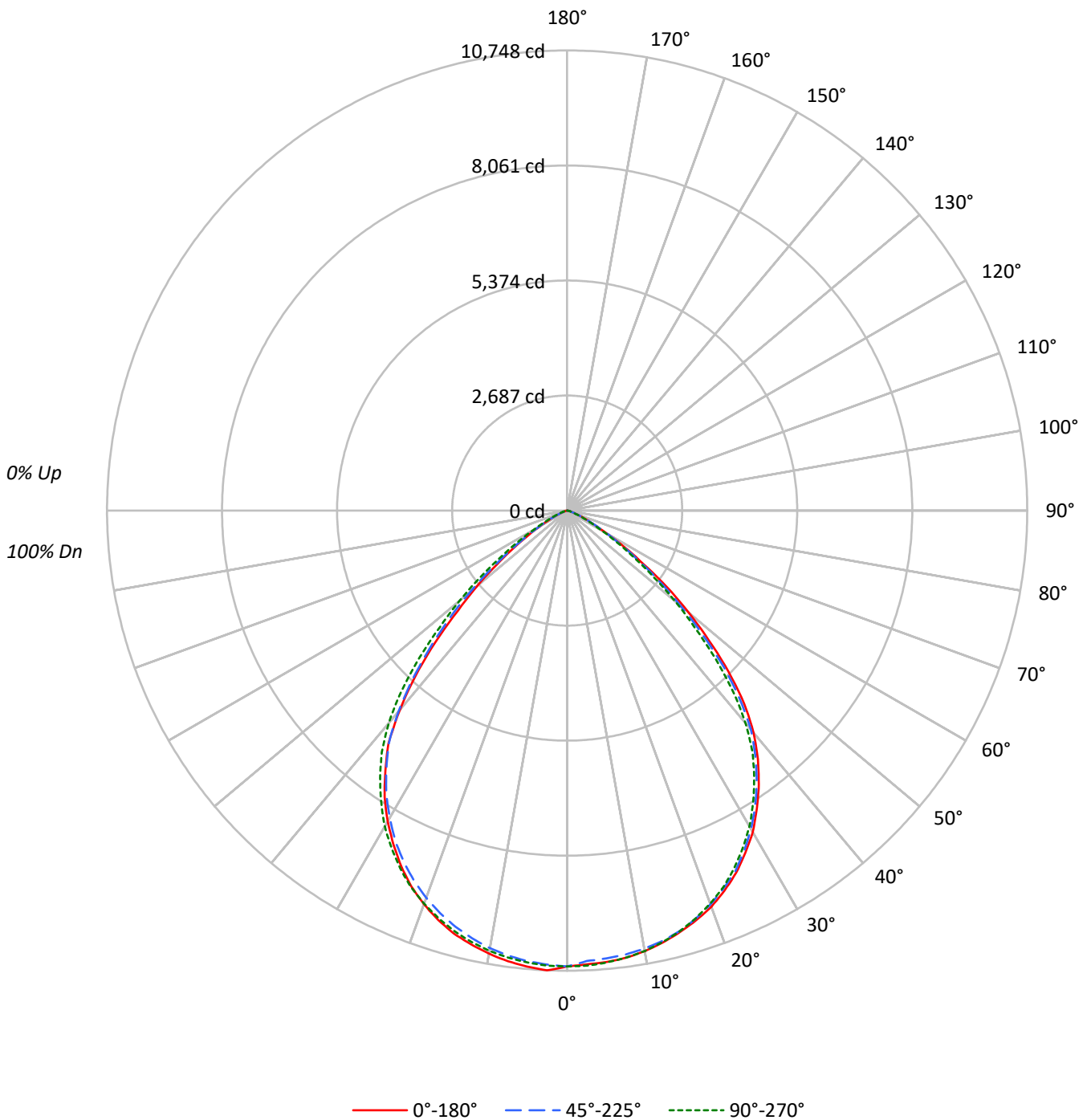
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	104	101	102	100	98	99	97	95	95	94	92					90				
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83					81				
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74					72				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66					64				
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59					58				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54					52				
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49					47				
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44					43				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41					39				
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37					36				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	328330	328330	328330
5°	327668	328005	330927
10°	327207	327004	329011
15°	325319	324732	326501
20°	323146	320579	321078
25°	317687	313879	311998
30°	308764	303316	298520
35°	293817	286747	278778
40°	272845	261131	245006
45°	232568	214055	190049
50°	177087	157763	131618
55°	116738	101738	81949
60°	65552	57652	45262
65°	34381	30740	21868
70°	16445	14489	9106
75°	9317	10091	6338
80°	7139	6943	3658
85°	4210	3467	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1005.5	5.3
10°-20°	2864.0	15.2
20°-30°	4231.1	22.5
30°-40°	4715.1	25.1
40°-50°	3723.6	19.8
50°-60°	1719.6	9.1
60°-70°	441.8	2.3
70°-80°	85.1	0.5
80°-90°	13.3	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°	8100.6	43.1
0°-40°	12815.6	68.2
0°-60°	18258.8	97.1
0°-90°	18799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18799.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10648	10648	10648	10648	10648	
5°	10586	10501	10596	10564	10691	###
15°	10190	10167	10172	10066	10227	2876
25°	9337	9294	9225	9041	9170	4291
35°	7805	7718	7617	7363	7406	4860
45°	5333	5178	4908	4516	4358	4070
55°	2171	2047	1892	1620	1524	2012
65°	471	478	421	322	300	517
75°	78	82	85	64	53	94
85°	12	12	10	5	4	17
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°	10647.5	10647.5	10647.5	10647.5	10647.5	10647.5	10647.5	10647.5	10647.5
2.5°	10607.3	10657.3	10530.3	10633.4	10637.7	10565.0	10614.9	10674.7	10748.5
5°	10585.6	10636.7	10501.0	10596.5	10596.5	10517.2	10563.9	10616.0	10690.9
7.5°	10534.6	10590.0	10456.4	10545.5	10531.4	10444.5	10485.8	10536.8	10617.1
10°	10449.9	10518.3	10388.0	10472.7	10443.4	10343.5	10379.4	10432.6	10507.5
12.5°	10333.8	10415.2	10293.6	10367.4	10320.7	10206.7	10236.0	10304.4	10378.3
15°	10190.4	10274.0	10166.6	10230.6	10172.0	10045.0	10065.6	10135.1	10227.4
17.5°	10030.8	10112.3	9991.8	10061.2	9983.1	9851.7	9859.3	9939.6	10023.2
20°	9847.4	9914.7	9790.9	9857.1	9769.2	9624.8	9625.9	9697.5	9784.4
22.5°	9606.3	9676.9	9548.8	9604.2	9523.8	9369.6	9351.2	9420.7	9504.3
25°	9337.1	9410.9	9293.6	9313.2	9225.2	9065.6	9040.7	9091.7	9169.9
27.5°	9014.6	9087.4	8954.9	8979.9	8883.2	8730.2	8696.5	8723.6	8785.5
30°	8671.5	8717.1	8591.2	8611.8	8518.5	8337.1	8286.1	8323.0	8383.8
32.5°	8249.2	8281.8	8174.3	8185.1	8084.2	7927.8	7860.5	7871.4	7933.3
35°	7805.1	7822.5	7718.3	7720.5	7617.3	7458.8	7363.3	7357.8	7405.6
37.5°	7315.5	7327.4	7222.1	7216.7	7110.3	6938.7	6838.9	6821.5	6850.8
40°	6778.1	6794.3	6684.7	6650.0	6487.1	6291.7	6128.8	6098.4	6086.5
42.5°	6126.6	6082.1	5967.0	5908.4	5744.5	5493.7	5342.8	5297.2	5258.1
45°	5333.0	5297.2	5177.7	5045.3	4908.5	4719.6	4516.5	4391.7	4358.0
47.5°	4500.3	4457.9	4286.4	4170.2	4035.6	3948.7	3730.5	3538.3	3454.7
50°	3691.4	3644.7	3453.6	3367.9	3288.6	3159.4	2947.7	2775.1	2743.6
52.5°	2943.3	2872.8	2708.8	2619.8	2549.2	2405.9	2214.8	2115.0	2061.8
55°	2171.4	2160.6	2046.6	1982.5	1892.4	1778.4	1619.9	1545.0	1524.3
57.5°	1581.9	1541.7	1498.3	1444.0	1365.8	1222.5	1124.8	1068.3	1064.0
60°	1062.9	1075.9	1075.9	1016.2	934.8	841.4	763.3	732.9	733.9
62.5°	713.3	722.0	719.8	693.8	630.8	554.8	503.8	482.1	483.1
65°	471.2	469.0	477.7	459.3	421.3	368.1	322.5	310.5	299.7
67.5°	299.7	302.9	299.7	289.9	267.1	229.1	198.7	180.2	174.8
70°	182.4	178.1	179.1	177.0	160.7	142.2	120.5	105.3	101.0
72.5°	109.7	112.9	114.0	117.3	115.1	102.1	86.9	76.0	73.8
75°	78.2	79.3	82.5	85.8	84.7	76.0	64.1	56.5	53.2
77.5°	58.6	58.6	60.8	65.1	61.9	54.3	45.6	39.1	36.9
80°	40.2	41.3	42.3	42.3	39.1	34.7	27.1	22.8	20.6
82.5°	23.9	25.0	23.9	23.9	21.7	17.4	13.0	11.9	10.9
85°	11.9	11.9	11.9	11.9	9.8	7.6	5.4	4.3	4.3
87.5°	5.4	5.4	5.4	4.3	3.3	2.2	2.2	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)