

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: P247956

Luminaire Tested: **LD8B175D010 ER8B175840 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175840 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19772.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

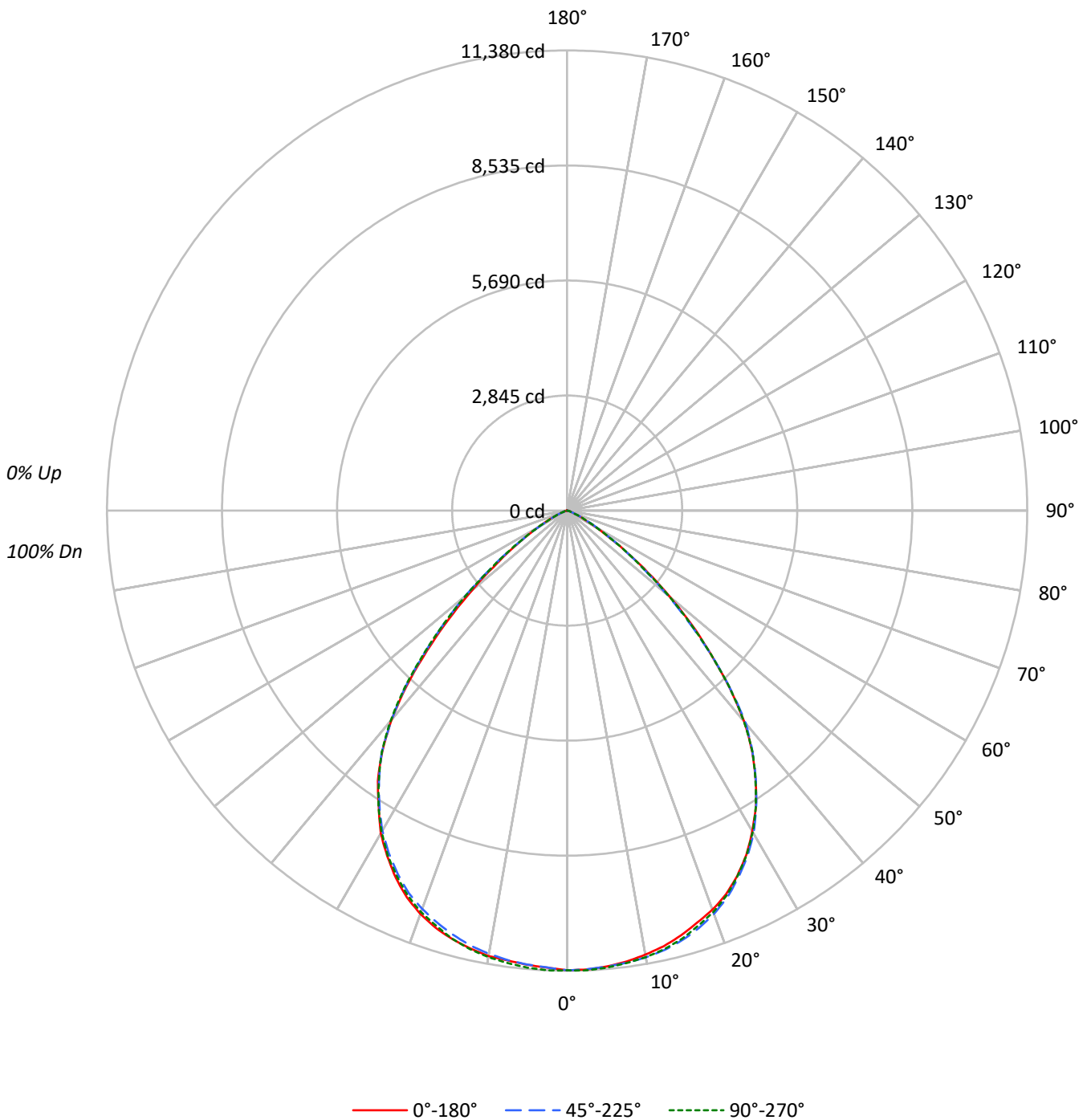
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	350578	350578	350578
5°	350320	351153	349035
10°	349101	351033	350259
15°	347226	350016	350268
20°	344699	346723	348269
25°	338849	339231	341139
30°	326015	326734	328212
35°	306077	305528	307301
40°	274423	273703	271762
45°	219184	219136	213606
50°	158411	156905	147867
55°	97082	96362	91959
60°	49875	51811	51053
65°	24305	25290	25698
70°	10413	10720	10215
75°	8149	8149	7077
80°	4386	3978	3587
85°	3573	2371	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.4	5.4
10°-20°	3087.5	15.6
20°-30°	4586.9	23.2
30°-40°	5054.9	25.6
40°-50°	3850.1	19.5
50°-60°	1659.7	8.4
60°-70°	381.3	1.9
70°-80°	63.3	0.3
80°-90°	11.9	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°	8750.8	44.3
0°-40°	13805.7	69.8
0°-60°	19315.5	97.7
0°-90°	19772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19772.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11369	11369	11369	11369	11369	
5°	11317	11316	11344	11268	11276	###
15°	10877	10998	10964	10866	10972	3068
25°	9959	10015	9970	9912	10026	4571
35°	8131	8135	8116	8110	8163	5048
45°	5026	5016	5025	4998	4898	3877
55°	1806	1805	1792	1804	1710	1684
65°	333	366	347	344	352	372
75°	68	68	68	70	59	63
85°	10	7	7	20	15	10
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°	11369.0	11369.0	11369.0	11369.0	11369.0	11369.0	11369.0	11369.0	11369.0
2.5°	11356.6	11357.7	11349.9	11366.7	11380.2	11336.4	11310.6	11369.0	11312.9
5°	11317.4	11325.2	11316.2	11337.6	11344.3	11308.4	11268.0	11330.8	11275.9
7.5°	11250.1	11265.8	11279.2	11303.9	11286.0	11241.1	11214.2	11288.2	11220.9
10°	11149.1	11188.4	11217.5	11254.6	11210.8	11162.6	11130.1	11231.0	11186.1
12.5°	11035.8	11080.7	11130.1	11174.9	11108.7	11038.1	11021.3	11128.9	11088.6
15°	10876.6	10918.1	10997.7	11040.3	10964.0	10883.3	10866.5	11003.3	10971.9
17.5°	10689.2	10762.2	10829.5	10863.1	10766.6	10697.1	10688.1	10829.5	10817.1
20°	10504.2	10543.4	10613.0	10657.8	10565.9	10482.9	10479.5	10625.3	10613.0
22.5°	10269.8	10304.5	10350.5	10392.0	10305.6	10236.1	10240.6	10360.6	10358.4
25°	9959.1	9982.6	10015.1	10061.1	9970.3	9920.9	9911.9	10039.8	10026.4
27.5°	9596.8	9612.5	9649.5	9688.7	9610.2	9566.5	9550.8	9678.6	9633.8
30°	9156.0	9191.9	9217.7	9234.5	9176.2	9149.2	9138.0	9239.0	9217.7
32.5°	8688.2	8700.6	8701.7	8743.2	8681.5	8643.4	8643.4	8724.1	8675.9
35°	8130.8	8128.5	8135.3	8180.1	8116.2	8129.7	8109.5	8173.4	8163.3
37.5°	7519.5	7529.6	7531.8	7567.7	7531.8	7540.8	7532.9	7543.0	7510.5
40°	6817.3	6861.1	6875.7	6868.9	6799.4	6775.8	6755.6	6792.7	6751.2
42.5°	5945.8	5966.0	5968.3	5972.7	5953.7	5950.3	5925.6	5941.3	5876.3
45°	5026.1	5035.1	5016.0	5012.6	5025.0	5044.0	4998.0	4962.1	4898.2
47.5°	4186.0	4154.6	4068.2	4099.6	4113.1	4161.3	4111.9	4015.5	3962.8
50°	3302.1	3269.6	3203.4	3218.0	3270.7	3343.6	3286.4	3152.9	3082.3
52.5°	2522.6	2485.6	2411.5	2425.0	2440.7	2495.7	2465.4	2374.5	2306.1
55°	1805.8	1780.0	1804.7	1784.5	1792.4	1845.1	1803.6	1728.5	1710.5
57.5°	1220.3	1234.9	1255.1	1258.5	1242.8	1227.1	1221.5	1192.3	1208.0
60°	808.7	819.9	853.6	863.7	840.1	806.5	813.2	813.2	827.8
62.5°	522.7	532.8	572.0	578.8	545.1	536.1	536.1	532.8	559.7
65°	333.1	353.3	365.7	347.7	346.6	334.2	344.3	344.3	352.2
67.5°	199.7	181.7	194.0	201.9	194.0	183.9	181.7	182.8	194.0
70°	115.5	111.0	118.9	114.4	118.9	103.2	115.5	109.9	113.3
72.5°	74.0	72.9	72.9	77.4	72.9	70.7	75.2	65.1	71.8
75°	68.4	68.4	68.4	59.4	68.4	66.2	69.5	52.7	59.4
77.5°	26.9	31.4	38.1	37.0	37.0	34.8	31.4	26.9	41.5
80°	24.7	22.4	30.3	35.9	22.4	26.9	30.3	19.1	20.2
82.5°	12.3	11.2	14.6	14.6	14.6	7.9	20.2	12.3	10.1
85°	10.1	4.5	6.7	6.7	6.7	9.0	20.2	5.6	14.6
87.5°	2.2	3.4	5.6	5.6	6.7	11.2	20.2	4.5	16.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)