

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: P247878

Luminaire Tested: **LD8B175D010 ER8B175830 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175830 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19691.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

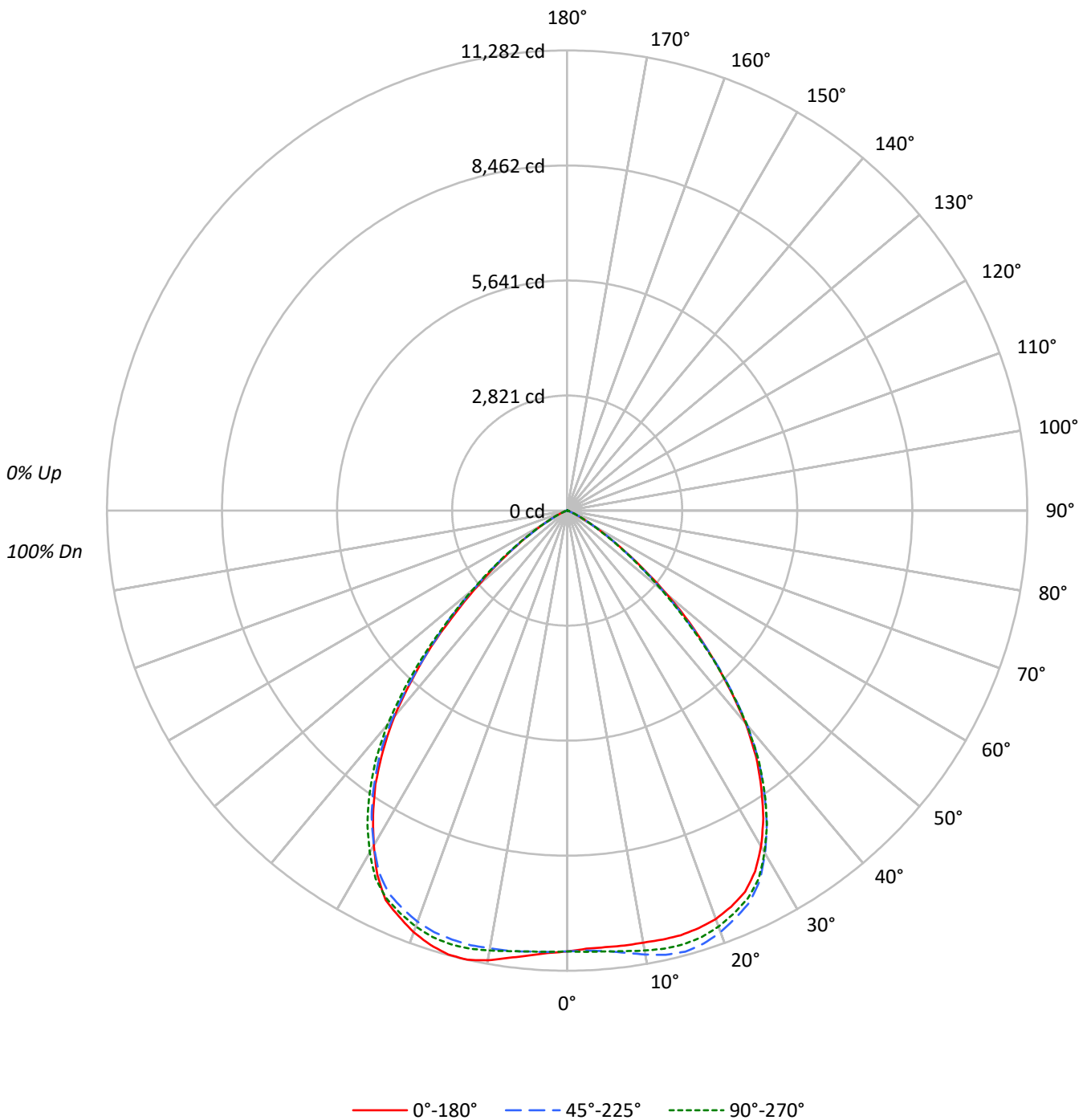
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	333251	333251	333251
5°	332608	335803	338926
10°	336795	342948	350563
15°	344072	351523	359702
20°	349687	356135	361051
25°	351040	356767	358505
30°	338609	344523	337409
35°	312292	317770	308408
40°	273803	275860	265370
45°	215002	213249	205107
50°	152765	145626	135681
55°	90878	87610	82067
60°	45601	43726	43387
65°	19168	18460	18934
70°	7150	6167	5969
75°	2848	3110	3110
80°	3285	2309	764
85°	3467	6545	2689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.3	5.3
10°-20°	3111.8	15.8
20°-30°	4782.5	24.3
30°-40°	5173.8	26.3
40°-50°	3729.1	18.9
50°-60°	1513.8	7.7
60°-70°	302.3	1.5
70°-80°	30.3	0.2
80°-90°	8.1	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°	8933.6	45.4
0°-40°	14107.4	71.6
0°-60°	19350.3	98.3
0°-90°	19691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19691.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10807	10807	10807	10807	10807	
5°	10745	10836	10848	10853	10949	###
15°	10778	11196	11011	10888	11267	3045
25°	10317	10592	10486	10351	10537	4716
35°	8296	8418	8441	8269	8193	5151
45°	4930	4954	4890	4726	4703	3803
55°	1690	1638	1630	1574	1526	1586
65°	263	284	253	241	260	313
75°	24	29	26	25	26	31
85°	10	14	18	9	8	8
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°	10807.1	10807.1	10807.1	10807.1	10807.1	10807.1	10807.1	10807.1	10807.1
2.5°	10751.7	10820.1	10797.3	10768.0	10829.9	10818.0	10831.0	10836.4	10857.0
5°	10745.2	10822.3	10836.4	10804.9	10848.4	10827.7	10852.7	10899.4	10949.3
7.5°	10756.1	10872.2	10933.0	10914.6	10894.0	10823.4	10888.5	10996.0	11062.2
10°	10756.1	10910.2	11051.4	11050.3	10952.6	10821.2	10894.0	11079.6	11195.8
12.5°	10773.4	10962.4	11155.6	11168.6	11002.5	10836.4	10914.6	11133.9	11281.6
15°	10777.8	10963.4	11195.8	11202.3	11011.2	10815.8	10888.5	11124.1	11267.4
17.5°	10732.2	10911.3	11131.7	11154.5	10962.4	10763.7	10837.5	11048.1	11162.1
20°	10656.2	10816.9	10996.0	11034.0	10852.7	10663.8	10728.9	10910.2	11002.5
22.5°	10510.7	10657.3	10804.9	10833.2	10687.7	10522.6	10555.2	10696.4	10773.4
25°	10317.4	10462.9	10592.1	10607.3	10485.7	10338.1	10351.1	10458.6	10536.8
27.5°	9974.4	10112.2	10229.5	10248.0	10175.2	10017.8	9993.9	10044.9	10077.5
30°	9509.7	9604.1	9701.9	9760.5	9675.8	9545.5	9478.2	9505.3	9476.0
32.5°	8951.6	9048.3	9108.0	9126.4	9113.4	8999.4	8920.1	8851.7	8856.1
35°	8295.9	8383.8	8417.5	8451.1	8441.4	8352.3	8268.7	8204.7	8192.7
37.5°	7608.6	7667.2	7705.2	7731.3	7709.6	7653.1	7544.6	7433.8	7415.4
40°	6801.9	6891.0	6860.6	6873.6	6853.0	6781.3	6672.7	6609.8	6592.4
42.5°	5855.2	5933.4	5926.9	5931.2	5885.6	5787.9	5693.4	5658.7	5640.2
45°	4930.2	4968.2	4954.1	4908.5	4890.0	4829.2	4726.1	4659.8	4703.3
47.5°	4059.4	4046.4	3952.0	3915.0	3887.9	3896.6	3873.8	3757.6	3694.7
50°	3184.4	3150.7	3060.6	3005.2	3035.6	3059.5	2974.8	2905.3	2828.3
52.5°	2361.4	2367.9	2282.2	2221.4	2249.6	2253.9	2204.0	2164.9	2142.1
55°	1690.4	1690.4	1638.3	1618.8	1629.6	1609.0	1574.3	1561.2	1526.5
57.5°	1149.8	1157.4	1154.1	1131.3	1080.3	1061.8	1042.3	1061.8	1073.8
60°	739.4	757.8	754.6	752.4	709.0	665.5	684.0	701.4	703.5
62.5°	454.9	463.6	478.8	465.8	444.1	409.3	405.0	431.0	454.9
65°	262.7	272.5	284.5	275.8	253.0	247.5	241.0	255.1	259.5
67.5°	149.8	145.5	146.6	140.1	133.5	125.9	127.0	133.5	143.3
70°	79.3	68.4	69.5	63.0	68.4	60.8	58.6	64.1	66.2
72.5°	40.2	39.1	44.5	44.5	47.8	42.3	42.3	40.2	45.6
75°	23.9	27.1	29.3	32.6	26.1	25.0	25.0	25.0	26.1
77.5°	6.5	3.3	4.3	14.1	5.4	10.9	5.4	4.3	9.8
80°	18.5	10.9	6.5	11.9	13.0	6.5	16.3	15.2	4.3
82.5°	6.5	0.0	11.9	13.0	10.9	10.9	13.0	13.0	11.9
85°	9.8	6.5	14.1	16.3	18.5	10.9	8.7	5.4	7.6
87.5°	4.3	0.0	6.5	5.4	3.3	1.1	3.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)