

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: P247875

Luminaire Tested: **LD8B175D010 ER8B175827 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247875
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 ER8B175827 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19210.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

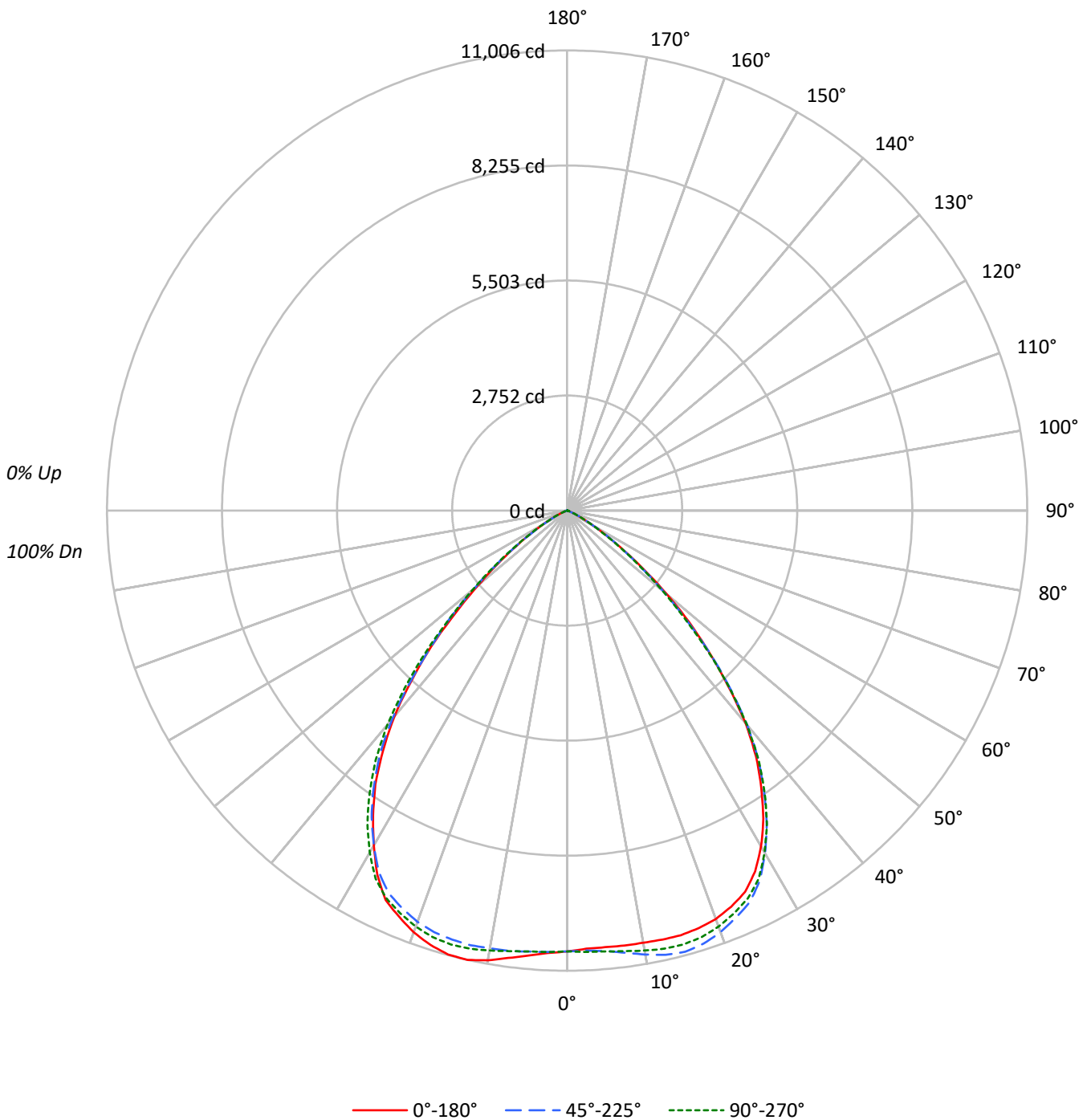
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	325110	325110	325110
5°	324483	327600	330649
10°	328566	334569	341999
15°	335666	342935	350916
20°	341145	347435	352233
25°	342466	348053	349747
30°	330338	336106	329170
35°	304662	310007	300875
40°	267117	269122	258889
45°	209751	208042	200096
50°	149032	142071	132367
55°	88658	85470	80062
60°	44484	42653	42332
65°	18701	18008	18467
70°	6969	6014	5824
75°	2776	3026	3026
80°	3196	2255	746
85°	3361	6369	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.9	5.3
10°-20°	3035.8	15.8
20°-30°	4665.7	24.3
30°-40°	5047.4	26.3
40°-50°	3638.1	18.9
50°-60°	1476.8	7.7
60°-70°	295.0	1.5
70°-80°	29.5	0.2
80°-90°	7.9	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°	8715.4	45.4
0°-40°	13762.8	71.6
0°-60°	18877.6	98.3
0°-90°	19210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19210.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10543	10543	10543	10543	10543	
5°	10483	10572	10583	10588	10682	###
15°	10514	10922	10742	10622	10992	2971
25°	10065	10333	10230	10098	10279	4601
35°	8093	8212	8235	8067	7993	5026
45°	4810	4833	4771	4611	4588	3710
55°	1649	1598	1590	1536	1489	1547
65°	256	278	247	235	253	305
75°	23	29	25	24	25	31
85°	10	14	18	8	7	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°	10543.1	10543.1	10543.1	10543.1	10543.1	10543.1	10543.1	10543.1	10543.1
2.5°	10489.1	10555.8	10533.6	10505.0	10565.4	10553.7	10566.4	10571.7	10591.8
5°	10482.7	10557.9	10571.7	10541.0	10583.4	10563.2	10587.6	10633.1	10681.9
7.5°	10493.3	10606.7	10666.0	10648.0	10627.8	10559.0	10622.5	10727.4	10792.0
10°	10493.3	10643.7	10781.4	10780.4	10685.0	10556.9	10627.8	10809.0	10922.3
12.5°	10510.3	10694.6	10883.1	10895.8	10733.8	10571.7	10648.0	10861.9	11006.0
15°	10514.5	10695.6	10922.3	10928.7	10742.2	10551.6	10622.5	10852.4	10992.2
17.5°	10470.0	10644.8	10859.8	10882.0	10694.6	10500.7	10572.8	10778.2	10889.5
20°	10395.9	10552.6	10727.4	10764.5	10587.6	10403.3	10466.8	10643.7	10733.8
22.5°	10254.0	10396.9	10541.0	10568.5	10426.6	10265.6	10297.4	10435.1	10510.3
25°	10065.4	10207.3	10333.4	10348.2	10229.6	10085.5	10098.3	10203.1	10279.4
27.5°	9730.7	9865.2	9979.6	9997.6	9926.7	9773.1	9749.8	9799.6	9831.3
30°	9277.4	9369.5	9464.9	9522.1	9439.4	9312.3	9246.7	9273.1	9244.6
32.5°	8733.0	8827.2	8885.5	8903.5	8890.8	8779.6	8702.2	8635.5	8639.8
35°	8093.2	8179.0	8211.8	8244.7	8235.2	8148.3	8066.7	8004.2	7992.6
37.5°	7422.8	7480.0	7517.0	7542.4	7521.3	7466.2	7360.3	7252.2	7234.2
40°	6635.8	6722.6	6693.0	6705.7	6685.6	6615.7	6509.7	6448.3	6431.4
42.5°	5712.2	5788.4	5782.1	5786.3	5741.8	5646.5	5554.4	5520.5	5502.5
45°	4809.8	4846.8	4833.1	4788.6	4770.6	4711.2	4610.6	4546.0	4588.4
47.5°	3960.3	3947.6	3855.4	3819.4	3792.9	3801.4	3779.2	3665.8	3604.4
50°	3106.6	3073.7	2985.8	2931.8	2961.5	2984.8	2902.2	2834.4	2759.2
52.5°	2303.7	2310.1	2226.4	2167.1	2194.6	2198.9	2150.1	2112.0	2089.8
55°	1649.1	1649.1	1598.3	1579.2	1589.8	1569.7	1535.8	1523.1	1489.2
57.5°	1121.7	1129.1	1125.9	1103.7	1053.9	1035.9	1016.8	1035.9	1047.5
60°	721.3	739.3	736.1	734.0	691.6	649.3	667.3	684.2	686.4
62.5°	443.8	452.3	467.1	454.4	433.2	399.3	395.1	420.5	443.8
65°	256.3	265.9	277.5	269.0	246.8	241.5	235.1	248.9	253.1
67.5°	146.2	141.9	143.0	136.6	130.3	122.9	123.9	130.3	139.8
70°	77.3	66.7	67.8	61.4	66.7	59.3	57.2	62.5	64.6
72.5°	39.2	38.1	43.4	43.4	46.6	41.3	41.3	39.2	44.5
75°	23.3	26.5	28.6	31.8	25.4	24.4	24.4	24.4	25.4
77.5°	6.4	3.2	4.2	13.8	5.3	10.6	5.3	4.2	9.5
80°	18.0	10.6	6.4	11.7	12.7	6.4	15.9	14.8	4.2
82.5°	6.4	0.0	11.7	12.7	10.6	10.6	12.7	12.7	11.7
85°	9.5	6.4	13.8	15.9	18.0	10.6	8.5	5.3	7.4
87.5°	4.2	0.0	6.4	5.3	3.2	1.1	3.2	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)