

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: P247899

Luminaire Tested: **LD8B175D010 ER8B175940 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247899
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 ER8B175940 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18238.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

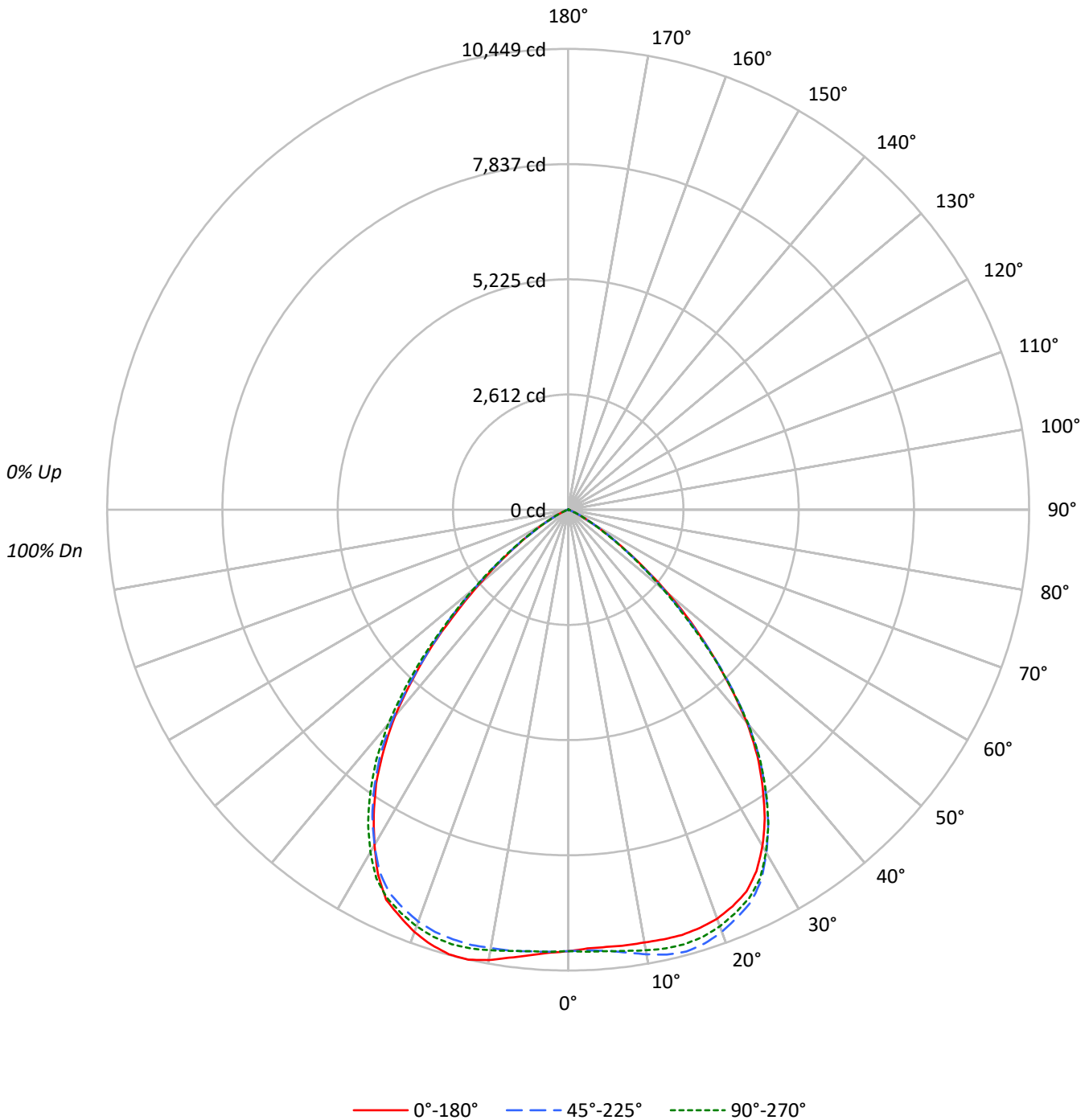
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	308659	308659	308659
5°	308065	311024	313918
10°	311943	317642	324693
15°	318682	325584	333160
20°	323884	329856	334408
25°	325138	330442	332051
30°	313624	319100	312513
35°	289247	294321	285652
40°	253600	255504	245787
45°	199137	197514	189970
50°	141491	134880	125670
55°	84174	81148	76013
60°	42233	40500	40186
65°	17760	17096	17533
70°	6618	5716	5527
75°	2633	2871	2871
80°	3037	2149	710
85°	3220	6050	2477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.6	5.3
10°-20°	2882.2	15.8
20°-30°	4429.6	24.3
30°-40°	4792.0	26.3
40°-50°	3454.0	18.9
50°-60°	1402.1	7.7
60°-70°	280.0	1.5
70°-80°	28.0	0.2
80°-90°	7.5	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°	8274.4	45.4
0°-40°	13066.4	71.6
0°-60°	17922.4	98.3
0°-90°	18238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18238.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10010	10010	10010	10010	10010	
5°	9952	10037	10048	10052	10141	951
15°	9982	10370	10199	10085	10436	2820
25°	9556	9810	9712	9587	9759	4368
35°	7684	7796	7818	7659	7588	4771
45°	4566	4588	4529	4377	4356	3522
55°	1566	1517	1509	1458	1414	1469
65°	243	264	234	223	240	290
75°	22	27	24	23	24	29
85°	9	13	17	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°	10009.6	10009.6	10009.6	10009.6	10009.6	10009.6	10009.6	10009.6	10009.6
2.5°	9958.4	10021.7	10000.6	9973.4	10030.8	10019.7	10031.8	10036.8	10055.9
5°	9952.3	10023.7	10036.8	10007.6	10047.9	10028.7	10051.9	10095.1	10141.4
7.5°	9962.4	10070.0	10126.3	10109.2	10090.1	10024.7	10085.1	10184.6	10246.0
10°	9962.4	10105.2	10235.9	10234.9	10144.4	10022.7	10090.1	10262.0	10369.6
12.5°	9978.5	10153.4	10332.4	10344.5	10190.6	10036.8	10109.2	10312.3	10449.1
15°	9982.5	10154.4	10369.6	10375.7	10198.7	10017.7	10085.1	10303.3	10436.0
17.5°	9940.3	10106.2	10310.3	10331.4	10153.4	9969.4	10037.8	10232.9	10338.5
20°	9869.9	10018.7	10184.6	10219.8	10051.9	9876.9	9937.2	10105.2	10190.6
22.5°	9735.1	9870.9	10007.6	10033.8	9899.0	9746.2	9776.3	9907.1	9978.5
25°	9556.1	9690.9	9810.5	9824.6	9712.0	9575.2	9587.3	9686.8	9759.3
27.5°	9238.4	9366.1	9474.7	9491.8	9424.4	9278.6	9256.5	9303.7	9333.9
30°	8808.0	8895.4	8986.0	9040.3	8961.8	8841.1	8778.8	8803.9	8776.8
32.5°	8291.1	8380.6	8435.9	8453.0	8440.9	8335.3	8261.9	8198.6	8202.6
35°	7683.7	7765.2	7796.3	7827.5	7818.5	7736.0	7658.6	7599.2	7588.2
37.5°	7047.2	7101.5	7136.7	7160.8	7140.7	7088.4	6987.8	6885.3	6868.2
40°	6300.0	6382.5	6354.3	6366.4	6347.3	6280.9	6180.4	6122.0	6105.9
42.5°	5423.1	5495.5	5489.5	5493.5	5451.3	5360.8	5273.3	5241.1	5224.0
45°	4566.4	4601.6	4588.5	4546.3	4529.2	4472.9	4377.3	4316.0	4356.2
47.5°	3759.9	3747.8	3660.3	3626.2	3601.0	3609.1	3587.9	3480.3	3422.0
50°	2949.4	2918.2	2834.8	2783.5	2811.6	2833.8	2755.3	2691.0	2619.6
52.5°	2187.2	2193.2	2113.8	2057.4	2083.6	2087.6	2041.3	2005.1	1984.0
55°	1565.7	1565.7	1517.4	1499.3	1509.4	1490.3	1458.1	1446.0	1413.9
57.5°	1064.9	1072.0	1068.9	1047.8	1000.6	983.5	965.4	983.5	994.5
60°	684.8	701.9	698.9	696.9	656.7	616.4	633.5	649.6	651.6
62.5°	421.3	429.4	443.5	431.4	411.3	379.1	375.1	399.2	421.3
65°	243.4	252.4	263.5	255.4	234.3	229.3	223.2	236.3	240.3
67.5°	138.8	134.7	135.8	129.7	123.7	116.6	117.7	123.7	132.7
70°	73.4	63.4	64.4	58.3	63.4	56.3	54.3	59.3	61.3
72.5°	37.2	36.2	41.2	41.2	44.2	39.2	39.2	37.2	42.2
75°	22.1	25.1	27.2	30.2	24.1	23.1	23.1	23.1	24.1
77.5°	6.0	3.0	4.0	13.1	5.0	10.1	5.0	4.0	9.1
80°	17.1	10.1	6.0	11.1	12.1	6.0	15.1	14.1	4.0
82.5°	6.0	0.0	11.1	12.1	10.1	10.1	12.1	12.1	11.1
85°	9.1	6.0	13.1	15.1	17.1	10.1	8.0	5.0	7.0
87.5°	4.0	0.0	6.0	5.0	3.0	1.0	3.0	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)