

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: P247908

Luminaire Tested: **LD8B175D010 ER8B175930 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247908
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 ER8B175930 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16910.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

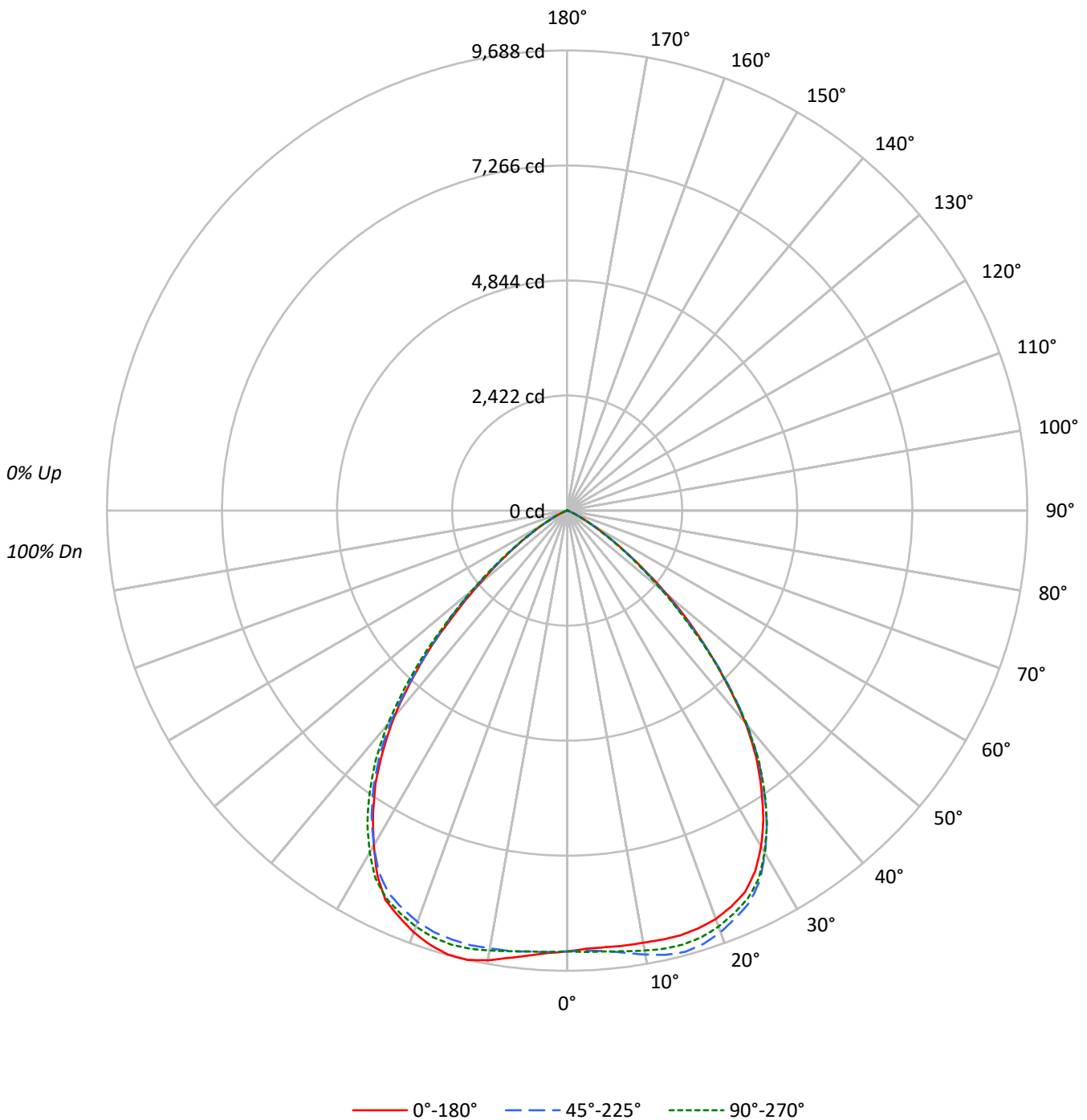
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.5	5.3
10°-20°	2672.3	15.8
20°-30°	4107.1	24.3
30°-40°	4443.2	26.3
40°-50°	3202.5	18.9
50°-60°	1300.0	7.7
60°-70°	259.7	1.5
70°-80°	26.0	0.2
80°-90°	7.0	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°	7672.0	45.4
0°-40°	12115.2	71.6
0°-60°	16617.7	98.3
0°-90°	16910.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16910.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9281	9281	9281	9281	9281	
5°	9228	9306	9316	9320	9403	882
15°	9256	9615	9456	9351	9676	2615
25°	8860	9096	9005	8889	9049	4050
35°	7124	7229	7249	7101	7036	4424
45°	4234	4254	4200	4059	4039	3266
55°	1452	1407	1400	1352	1311	1362
65°	226	244	217	207	223	269
75°	20	25	22	21	22	27
85°	8	12	16	8	6	7
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°	9281.0	9281.0	9281.0	9281.0	9281.0	9281.0	9281.0	9281.0	9281.0
2.5°	9233.3	9292.1	9272.6	9247.4	9300.5	9290.3	9301.5	9306.1	9323.8
5°	9227.8	9294.0	9306.1	9279.1	9316.4	9298.7	9320.1	9360.2	9403.1
7.5°	9237.2	9336.9	9389.2	9373.2	9355.5	9294.9	9350.8	9443.2	9500.0
10°	9237.2	9369.5	9490.7	9489.8	9405.9	9293.1	9355.5	9514.9	9614.7
12.5°	9252.1	9414.3	9580.3	9591.4	9448.8	9306.1	9373.2	9561.6	9688.4
15°	9255.8	9415.2	9614.7	9620.3	9456.2	9288.4	9350.8	9553.2	9676.2
17.5°	9216.6	9370.4	9559.8	9579.3	9414.3	9243.7	9307.1	9487.9	9585.8
20°	9151.4	9289.4	9443.2	9475.8	9320.1	9157.9	9213.8	9369.5	9448.8
22.5°	9026.4	9152.3	9279.1	9303.3	9178.4	9036.7	9064.6	9185.8	9252.1
25°	8860.5	8985.4	9096.4	9109.4	9005.0	8878.2	8889.3	8981.7	9048.8
27.5°	8565.8	8684.3	8784.9	8800.7	8738.3	8603.1	8582.6	8626.4	8654.3
30°	8166.7	8247.9	8331.8	8382.2	8309.4	8197.5	8139.7	8163.0	8137.9
32.5°	7687.5	7770.4	7821.8	7837.6	7826.4	7728.5	7660.5	7601.7	7605.4
35°	7124.3	7199.8	7228.8	7257.7	7249.3	7172.8	7101.1	7046.0	7035.7
37.5°	6534.2	6584.5	6617.2	6639.5	6620.9	6572.4	6479.2	6384.0	6368.2
40°	5841.4	5917.9	5891.8	5903.0	5885.2	5823.7	5730.4	5676.4	5661.4
42.5°	5028.4	5095.5	5089.9	5093.6	5054.5	4970.5	4889.5	4859.5	4843.7
45°	4233.9	4266.6	4254.4	4215.3	4199.5	4147.3	4058.7	4001.7	4039.1
47.5°	3486.2	3475.0	3393.8	3362.2	3338.9	3346.3	3326.8	3227.0	3172.9
50°	2734.7	2705.8	2628.4	2580.9	2607.0	2627.5	2554.8	2495.0	2428.9
52.5°	2027.9	2033.5	1959.8	1907.6	1931.9	1935.6	1892.7	1859.2	1839.6
55°	1451.7	1451.7	1407.0	1390.2	1399.5	1381.7	1351.9	1340.7	1310.9
57.5°	987.4	993.9	991.1	971.6	927.7	911.8	895.1	911.8	922.1
60°	634.9	650.9	648.1	646.1	608.8	571.6	587.4	602.3	604.2
62.5°	390.7	398.2	411.2	400.0	381.4	351.5	347.7	370.2	390.7
65°	225.7	234.1	244.3	236.9	217.2	212.5	206.9	219.2	222.9
67.5°	128.7	125.0	125.9	120.3	114.7	108.2	109.1	114.7	123.1
70°	68.0	58.7	59.6	54.0	58.7	52.2	50.3	55.0	56.8
72.5°	34.5	33.5	38.2	38.2	41.0	36.3	36.3	34.5	39.1
75°	20.5	23.3	25.2	28.0	22.4	21.4	21.4	21.4	22.4
77.5°	5.6	2.8	3.7	12.1	4.7	9.3	4.7	3.7	8.4
80°	15.8	9.3	5.6	10.2	11.2	5.6	14.0	13.0	3.7
82.5°	5.6	0.0	10.2	11.2	9.3	9.3	11.2	11.2	10.2
85°	8.4	5.6	12.1	14.0	15.8	9.3	7.5	4.7	6.5
87.5°	3.7	0.0	5.6	4.7	2.8	0.9	2.8	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)