

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: P247905

Luminaire Tested: **LD8B175D010 ER8B175927 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247905
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 ER8B175927 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16040.3 lumens
Efficiency: N/A
Efficacy: 90.5 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

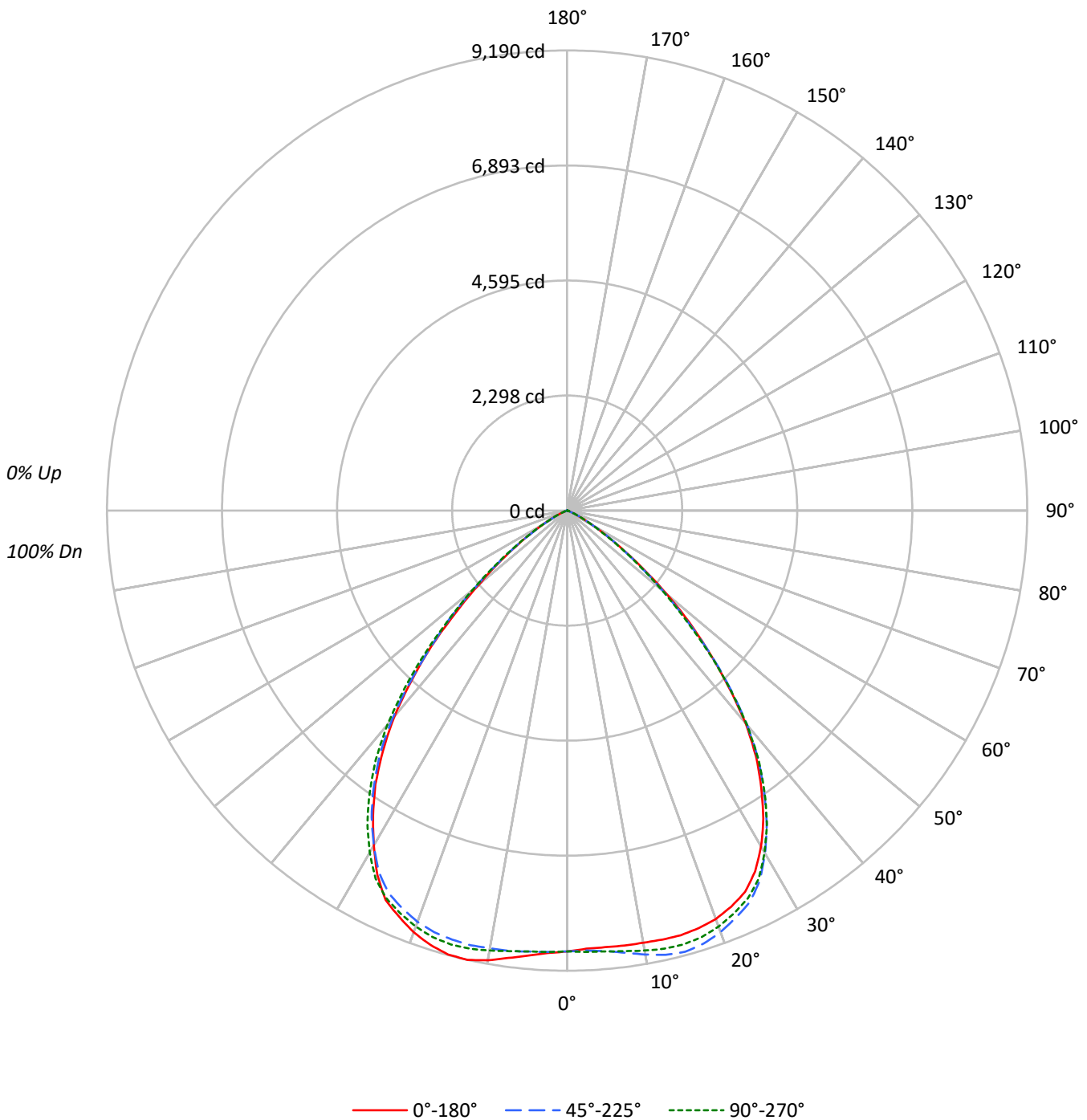
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	846.6	5.3
10°-20°	2534.9	15.8
20°-30°	3895.8	24.3
30°-40°	4214.6	26.3
40°-50°	3037.8	18.9
50°-60°	1233.1	7.7
60°-70°	246.3	1.5
70°-80°	24.7	0.2
80°-90°	6.6	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°	7277.3	45.4
0°-40°	11491.8	71.6
0°-60°	15762.7	98.3
0°-90°	16040.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16040.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8804	8804	8804	8804	8804	
5°	8753	8827	8837	8841	8919	836
15°	8780	9120	8970	8870	9178	2481
25°	8404	8628	8542	8432	8583	3842
35°	6758	6857	6876	6736	6674	4196
45°	4016	4036	3983	3850	3831	3098
55°	1377	1335	1328	1282	1244	1292
65°	214	232	206	196	211	255
75°	20	24	21	20	21	26
85°	8	12	15	7	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°	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5
2.5°	8758.4	8814.0	8795.5	8771.6	8822.0	8812.2	8822.9	8827.3	8844.1
5°	8753.1	8815.8	8827.3	8801.7	8837.1	8820.2	8840.6	8878.6	8919.3
7.5°	8761.8	8856.6	8906.1	8891.0	8874.2	8816.7	8869.7	8957.4	9011.2
10°	8761.8	8887.5	9002.5	9001.6	8921.9	8814.9	8874.2	9025.4	9120.0
12.5°	8776.0	8929.9	9087.3	9098.0	8962.6	8827.3	8891.0	9069.6	9189.9
15°	8779.6	8930.8	9120.0	9125.3	8969.7	8810.6	8869.7	9061.6	9178.4
17.5°	8742.4	8888.4	9067.8	9086.4	8929.9	8768.0	8828.2	8999.8	9092.7
20°	8680.5	8811.4	8957.4	8988.3	8840.6	8686.7	8739.8	8887.5	8962.6
22.5°	8562.0	8681.4	8801.7	8824.6	8706.2	8571.7	8598.3	8713.2	8776.0
25°	8404.5	8523.1	8628.3	8640.7	8541.7	8421.4	8432.0	8519.5	8583.2
27.5°	8125.1	8237.4	8333.0	8347.9	8288.7	8160.5	8141.1	8182.6	8209.1
30°	7746.5	7823.5	7903.1	7950.8	7881.9	7775.8	7720.9	7743.0	7719.2
32.5°	7292.0	7370.7	7419.4	7434.3	7423.8	7331.0	7266.4	7210.6	7214.2
35°	6757.8	6829.4	6856.9	6884.2	6876.3	6803.8	6735.7	6683.5	6673.7
37.5°	6198.0	6245.8	6276.7	6297.9	6280.2	6234.2	6145.8	6055.5	6040.6
40°	5540.8	5613.4	5588.6	5599.2	5582.4	5524.1	5435.6	5384.2	5370.2
42.5°	4769.7	4833.3	4828.0	4831.5	4794.4	4714.8	4637.8	4609.6	4594.5
45°	4016.1	4047.1	4035.6	3998.5	3983.4	3933.9	3849.9	3795.9	3831.3
47.5°	3306.8	3296.2	3219.3	3189.2	3167.1	3174.2	3155.6	3060.9	3009.6
50°	2594.0	2566.6	2493.1	2448.0	2472.9	2492.3	2423.2	2366.7	2303.9
52.5°	1923.6	1928.9	1859.1	1809.6	1832.5	1836.0	1795.4	1763.6	1745.0
55°	1377.0	1377.0	1334.6	1318.6	1327.5	1310.7	1282.4	1271.8	1243.5
57.5°	936.6	942.8	940.2	921.6	880.0	864.9	849.0	864.9	874.7
60°	602.3	617.3	614.7	612.9	577.6	542.1	557.2	571.3	573.1
62.5°	370.6	377.7	390.0	379.5	361.7	333.4	329.8	351.1	370.6
65°	214.0	222.0	231.8	224.7	206.1	201.6	196.3	207.8	211.4
67.5°	122.1	118.5	119.4	114.1	108.8	102.6	103.5	108.8	116.8
70°	64.6	55.7	56.6	51.3	55.7	49.5	47.8	52.2	54.0
72.5°	32.7	31.8	36.2	36.2	38.9	34.5	34.5	32.7	37.1
75°	19.5	22.2	23.8	26.6	21.3	20.4	20.4	20.4	21.3
77.5°	5.3	2.7	3.5	11.5	4.4	8.9	4.4	3.5	8.0
80°	15.1	8.9	5.3	9.7	10.6	5.3	13.3	12.4	3.5
82.5°	5.3	0.0	9.7	10.6	8.9	8.9	10.6	10.6	9.7
85°	8.0	5.3	11.5	13.3	15.1	8.9	7.1	4.4	6.2
87.5°	3.5	0.0	5.3	4.4	2.7	0.9	2.7	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)