

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 ER8B1759727 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 ER8B1759727 8LBSOLI
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: 14258.0 lumens
Efficiency: N/A
Efficacy: 80.5 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

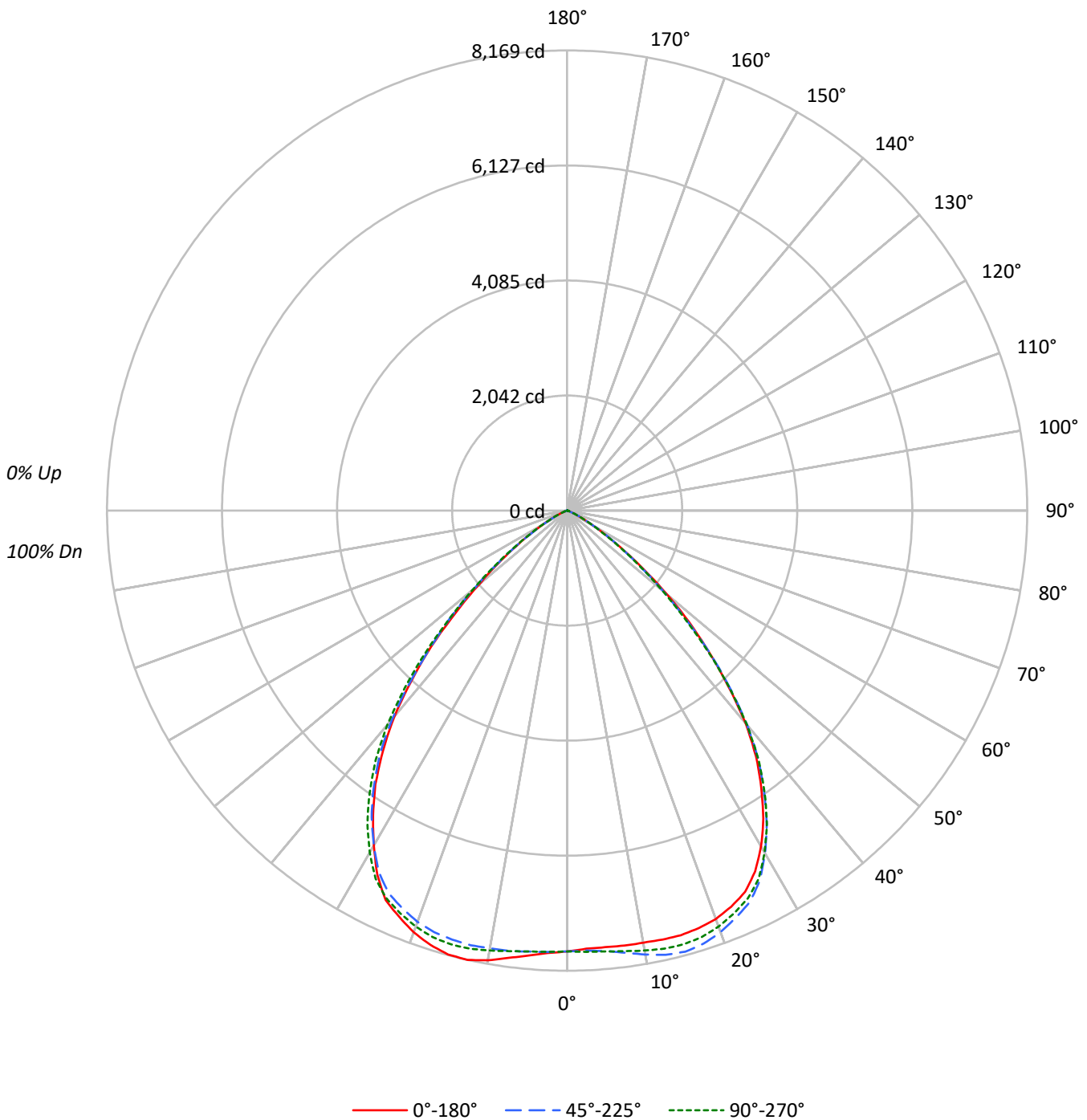
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	752.6	5.3
10°-20°	2253.2	15.8
20°-30°	3462.9	24.3
30°-40°	3746.3	26.3
40°-50°	2700.2	18.9
50°-60°	1096.1	7.7
60°-70°	218.9	1.5
70°-80°	21.9	0.2
80°-90°	5.9	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°	6468.7	45.4
0°-40°	10215.0	71.6
0°-60°	14011.3	98.3
0°-90°	14258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7825	7825	7825	7825	7825	
5°	7780	7846	7855	7858	7928	743
15°	7804	8107	7973	7884	8159	2205
25°	7471	7670	7593	7495	7630	3415
35°	6007	6095	6112	5987	5932	3730
45°	3570	3587	3541	3422	3406	2754
55°	1224	1186	1180	1140	1105	1148
65°	190	206	183	174	188	226
75°	17	21	19	18	19	23
85°	7	10	13	6	6	6
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°	7825.3	7825.3	7825.3	7825.3	7825.3	7825.3	7825.3	7825.3	7825.3
2.5°	7785.2	7834.7	7818.2	7797.0	7841.8	7833.1	7842.6	7846.5	7861.4
5°	7780.5	7836.3	7846.5	7823.7	7855.2	7840.2	7858.3	7892.1	7928.3
7.5°	7788.3	7872.5	7916.5	7903.1	7888.2	7837.1	7884.2	7962.1	8010.0
10°	7788.3	7900.0	8002.2	8001.4	7930.6	7835.5	7888.2	8022.6	8106.7
12.5°	7800.9	7937.7	8077.6	8087.1	7966.8	7846.5	7903.1	8061.9	8168.8
15°	7804.1	7938.5	8106.7	8111.4	7973.1	7831.6	7884.2	8054.8	8158.6
17.5°	7771.0	7900.8	8060.3	8076.8	7937.7	7793.8	7847.3	7999.8	8082.4
20°	7716.0	7832.4	7962.1	7989.6	7858.3	7721.5	7768.7	7900.0	7966.8
22.5°	7610.7	7716.8	7823.7	7844.1	7738.8	7619.3	7642.9	7745.1	7800.9
25°	7470.7	7576.1	7669.6	7680.6	7592.6	7485.7	7495.1	7572.9	7629.5
27.5°	7222.3	7322.1	7407.1	7420.4	7367.7	7253.8	7236.5	7273.4	7297.0
30°	6885.8	6954.2	7025.0	7067.4	7006.1	6911.8	6863.0	6882.7	6861.5
32.5°	6481.8	6551.7	6595.0	6608.3	6598.9	6516.4	6459.0	6409.4	6412.6
35°	6006.9	6070.6	6095.0	6119.3	6112.3	6047.8	5987.3	5940.9	5932.2
37.5°	5509.3	5551.8	5579.3	5598.1	5582.4	5541.5	5462.9	5382.7	5369.4
40°	4925.2	4989.7	4967.6	4977.1	4962.1	4910.3	4831.6	4786.0	4773.5
42.5°	4239.7	4296.3	4291.6	4294.7	4261.7	4190.9	4122.5	4097.4	4084.0
45°	3569.9	3597.4	3587.2	3554.2	3540.8	3496.8	3422.1	3374.1	3405.6
47.5°	2939.4	2930.0	2861.6	2834.8	2815.2	2821.5	2805.0	2720.8	2675.2
50°	2305.8	2281.4	2216.1	2176.0	2198.1	2215.4	2154.0	2103.7	2047.9
52.5°	1709.9	1714.6	1652.5	1608.5	1628.9	1632.0	1595.9	1567.6	1551.1
55°	1224.0	1224.0	1186.3	1172.1	1180.0	1165.1	1139.9	1130.5	1105.3
57.5°	832.5	838.0	835.7	819.2	782.2	768.8	754.7	768.8	777.5
60°	535.4	548.7	546.4	544.8	513.4	481.9	495.3	507.8	509.4
62.5°	329.4	335.7	346.7	337.3	321.5	296.4	293.2	312.1	329.4
65°	190.2	197.3	206.0	199.7	183.2	179.2	174.5	184.7	187.9
67.5°	108.5	105.3	106.1	101.4	96.7	91.2	92.0	96.7	103.8
70°	57.4	49.5	50.3	45.6	49.5	44.0	42.5	46.4	48.0
72.5°	29.1	28.3	32.2	32.2	34.6	30.7	30.7	29.1	33.0
75°	17.3	19.7	21.2	23.6	18.9	18.1	18.1	18.1	18.9
77.5°	4.7	2.4	3.1	10.2	3.9	7.9	3.9	3.1	7.1
80°	13.4	7.9	4.7	8.6	9.4	4.7	11.8	11.0	3.1
82.5°	4.7	0.0	8.6	9.4	7.9	7.9	9.4	9.4	8.6
85°	7.1	4.7	10.2	11.8	13.4	7.9	6.3	3.9	5.5
87.5°	3.1	0.0	4.7	3.9	2.4	0.8	2.4	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)