

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: P247906

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247906
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: LD8B200D010 ER8B2009727 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: 16807.0 lumens
Efficiency: N/A
Efficacy: 75.3 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

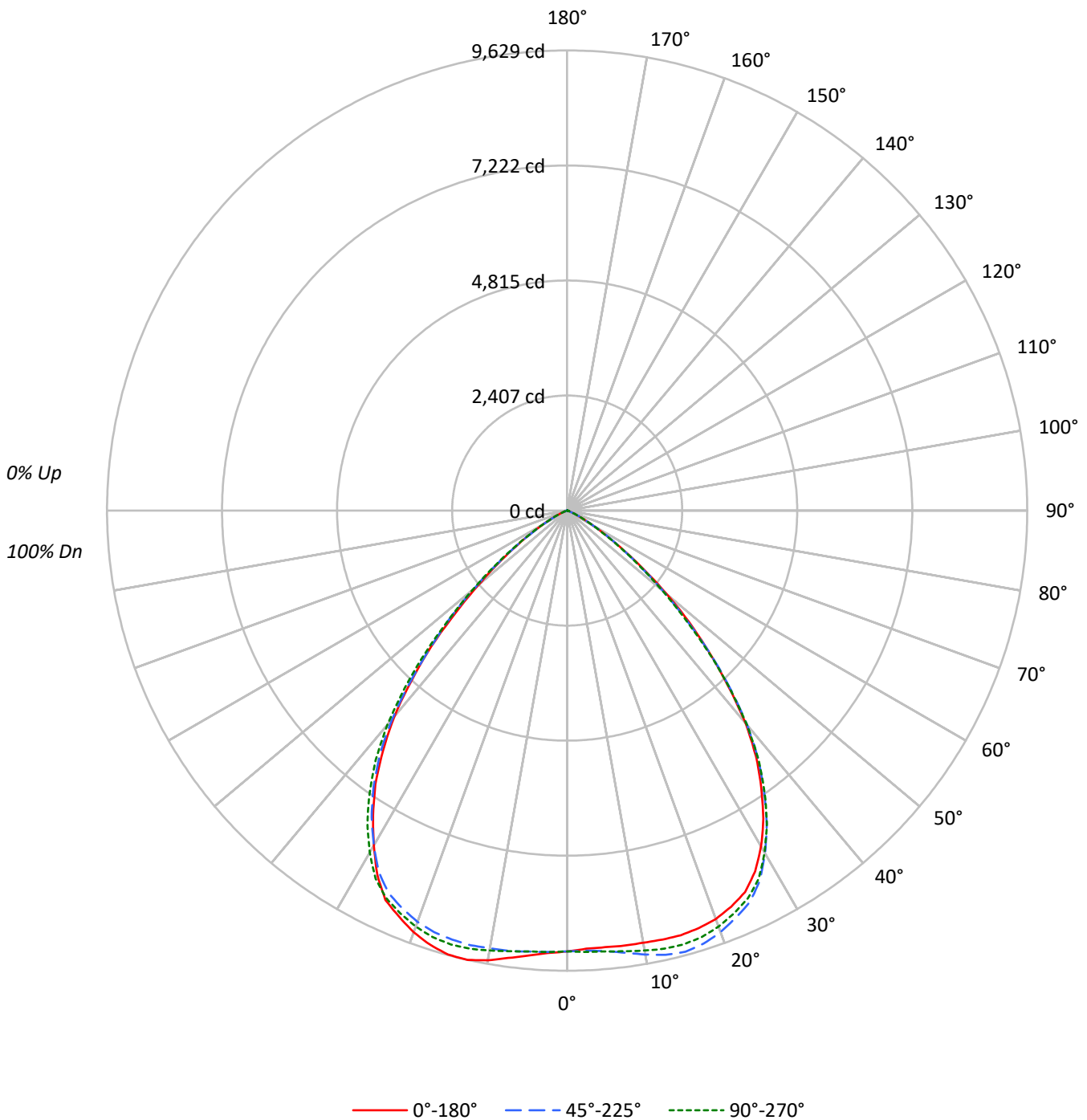
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247906

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSOLI

Luminous Intensity Polar Plot





TEST NUMBER: P247906

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSOLI

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°			



TEST NUMBER: P247906

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.1	5.3
10°-20°	2656.0	15.8
20°-30°	4082.0	24.3
30°-40°	4416.0	26.3
40°-50°	3183.0	18.9
50°-60°	1292.0	7.7
60°-70°	258.1	1.5
70°-80°	25.8	0.2
80°-90°	6.9	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°	7625.2	45.4
0°-40°	12041.2	71.6
0°-60°	16516.2	98.3
0°-90°	16807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16807.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9224	9224	9224	9224	9224	
5°	9171	9249	9260	9263	9346	876
15°	9199	9556	9398	9294	9617	2599
25°	8806	9041	8950	8835	8994	4025
35°	7081	7185	7205	7058	6993	4397
45°	4208	4228	4174	4034	4014	3246
55°	1443	1398	1391	1344	1303	1354
65°	224	243	216	206	222	267
75°	20	25	22	21	22	27
85°	8	12	16	7	6	7
90°	0	0	0	0	0	



TEST NUMBER: P247906

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSOLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9224.3	9224.3	9224.3	9224.3	9224.3	9224.3	9224.3	9224.3	9224.3
2.5°	9177.0	9235.4	9215.9	9190.9	9243.7	9233.5	9244.6	9249.3	9266.9
5°	9171.4	9237.2	9249.3	9222.4	9259.5	9241.9	9263.2	9303.0	9345.7
7.5°	9180.7	9279.9	9331.8	9316.0	9298.4	9238.2	9293.8	9385.5	9442.0
10°	9180.7	9312.3	9432.8	9431.8	9348.4	9236.3	9298.4	9456.9	9556.0
12.5°	9195.5	9356.8	9521.7	9532.8	9391.1	9249.3	9316.0	9503.2	9629.2
15°	9199.2	9357.7	9556.0	9561.6	9398.5	9231.7	9293.8	9494.9	9617.2
17.5°	9160.3	9313.2	9501.3	9520.8	9356.8	9187.2	9250.2	9430.0	9527.3
20°	9095.5	9232.6	9385.5	9417.9	9263.2	9101.9	9157.5	9312.3	9391.1
22.5°	8971.3	9096.4	9222.4	9246.5	9122.3	8981.5	9009.3	9129.7	9195.5
25°	8806.3	8930.5	9040.8	9053.8	8950.0	8823.9	8835.1	8926.8	8993.5
27.5°	8513.5	8631.2	8731.3	8747.0	8684.9	8550.6	8530.2	8573.7	8601.5
30°	8116.9	8197.5	8280.9	8330.9	8258.7	8147.4	8090.0	8113.2	8088.1
32.5°	7640.5	7723.0	7774.0	7789.7	7778.6	7681.3	7613.7	7555.3	7559.0
35°	7080.8	7155.9	7184.6	7213.3	7205.0	7129.0	7057.7	7003.0	6992.8
37.5°	6494.2	6544.3	6576.7	6599.0	6580.4	6532.2	6439.6	6345.0	6329.3
40°	5805.7	5881.7	5855.7	5866.9	5849.3	5788.1	5695.4	5641.7	5626.9
42.5°	4997.6	5064.4	5058.8	5062.5	5023.6	4940.2	4859.6	4829.9	4814.1
45°	4208.1	4240.5	4228.5	4189.6	4173.8	4121.9	4033.9	3977.3	4014.4
47.5°	3464.9	3453.8	3373.1	3341.6	3318.5	3325.9	3306.4	3207.3	3153.5
50°	2718.0	2689.3	2612.3	2565.1	2591.0	2611.4	2539.1	2479.8	2414.0
52.5°	2015.5	2021.1	1947.9	1896.0	1920.1	1923.8	1881.2	1847.8	1828.4
55°	1442.9	1442.9	1398.4	1381.7	1391.0	1373.4	1343.7	1332.6	1302.9
57.5°	981.4	987.9	985.1	965.6	922.1	906.3	889.6	906.3	916.5
60°	631.1	646.8	644.0	642.2	605.1	568.1	583.8	598.6	600.5
62.5°	388.3	395.7	408.7	397.5	379.0	349.4	345.7	367.9	388.3
65°	224.3	232.6	242.8	235.4	215.9	211.3	205.7	217.8	221.5
67.5°	127.9	124.2	125.1	119.5	114.0	107.5	108.4	114.0	122.3
70°	67.6	58.4	59.3	53.7	58.4	51.9	50.0	54.7	56.5
72.5°	34.3	33.4	38.0	38.0	40.8	36.1	36.1	34.3	38.9
75°	20.4	23.2	25.0	27.8	22.2	21.3	21.3	21.3	22.2
77.5°	5.6	2.8	3.7	12.0	4.6	9.3	4.6	3.7	8.3
80°	15.8	9.3	5.6	10.2	11.1	5.6	13.9	13.0	3.7
82.5°	5.6	0.0	10.2	11.1	9.3	9.3	11.1	11.1	10.2
85°	8.3	5.6	12.0	13.9	15.8	9.3	7.4	4.6	6.5
87.5°	3.7	0.0	5.6	4.6	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)