

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: P247876

Luminaire Tested: **LD8B200D010 ER8B200827 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247876  
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 ER8B200827 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22644.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

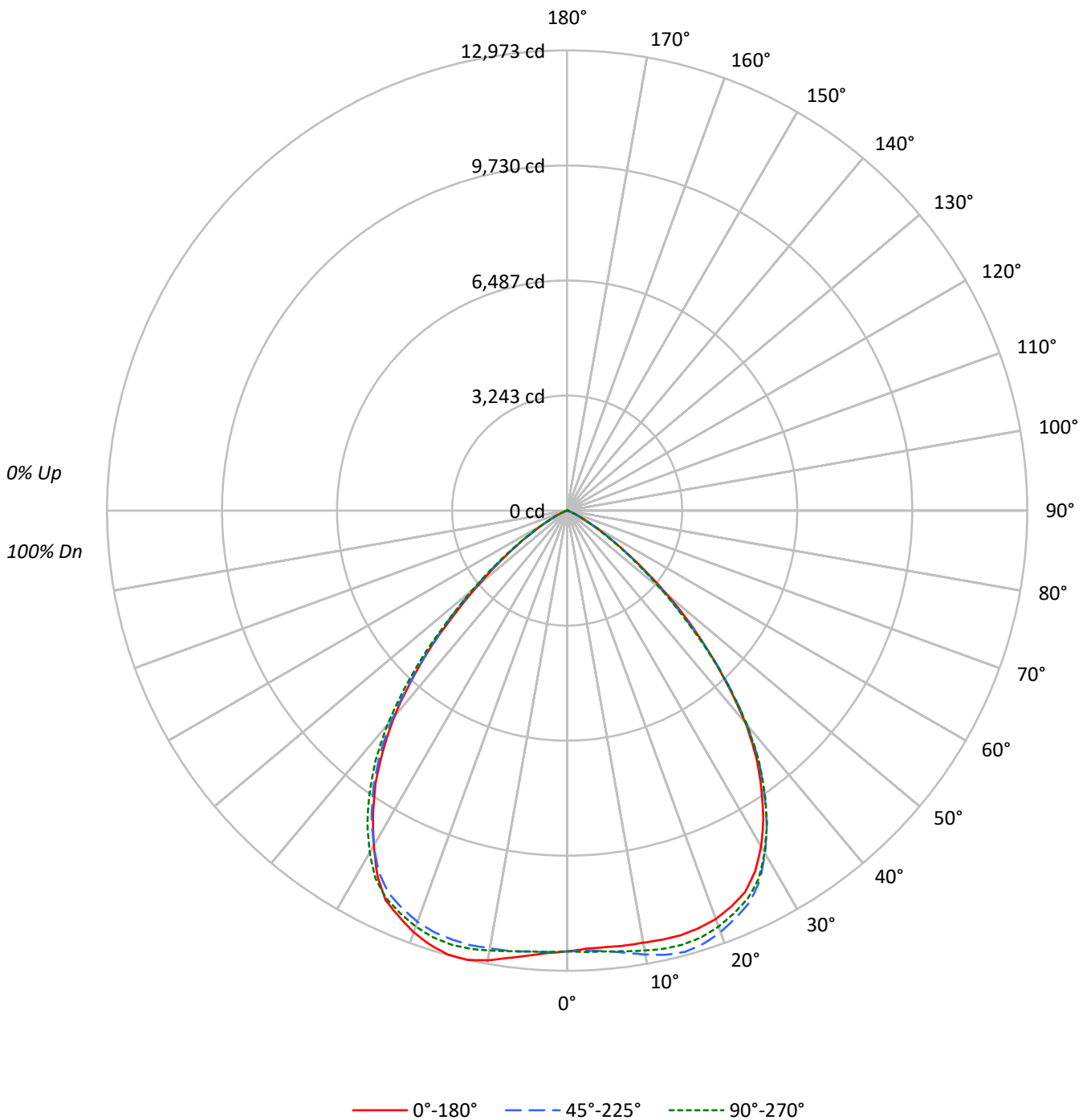
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247876

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSOLI

### Luminous Intensity Polar Plot





TEST NUMBER: P247876

CATALOG NUMBER: LD8B200D010 ER8B200827 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	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°	383228	383228	383228
5°	382487	386162	389756
10°	387301	394378	403136
15°	395671	404239	413647
20°	402129	409542	415196
25°	403686	410270	412267
30°	389388	396189	388010
35°	359126	365423	354661
40°	314866	317229	305165
45°	247242	245232	235864
50°	175672	167468	156027
55°	104512	100749	94373
60°	52434	50282	49893
65°	22043	21225	21773
70°	8214	7096	6870
75°	3276	3574	3574
80°	3765	2664	888
85°	3963	7501	3078



TEST NUMBER: P247876

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1195.2	5.3
10°-20°	3578.4	15.8
20°-30°	5499.7	24.3
30°-40°	5949.7	26.3
40°-50°	4288.4	18.9
50°-60°	1740.8	7.7
60°-70°	347.7	1.5
70°-80°	34.8	0.2
80°-90°	9.3	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°	10273.3	45.4
0°-40°	16223.0	71.6
0°-60°	22252.2	98.3
0°-90°	22644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12428	12428	12428	12428	12428	
5°	12357	12462	12475	12480	12591	###
15°	12394	12875	12662	12521	12957	3502
25°	11865	12181	12058	11903	12117	5423
35°	9540	9680	9707	9509	9421	5924
45°	5670	5697	5623	5435	5409	4373
55°	1944	1884	1874	1810	1755	1824
65°	302	327	291	277	298	360
75°	28	34	30	29	30	36
85°	11	16	21	10	9	9
90°	0	0	0	0	0	



TEST NUMBER: P247876

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12427.8	12427.8	12427.8	12427.8	12427.8	12427.8	12427.8	12427.8	12427.8
2.5°	12364.1	12442.8	12416.6	12382.9	12454.0	12440.3	12455.3	12461.5	12485.2
5°	12356.6	12445.3	12461.5	12425.3	12475.3	12451.5	12480.2	12533.9	12591.4
7.5°	12369.1	12502.7	12572.6	12551.4	12527.7	12446.5	12521.4	12645.1	12721.2
10°	12369.1	12546.4	12708.7	12707.5	12595.1	12444.0	12527.7	12741.2	12874.8
12.5°	12389.1	12606.3	12828.6	12843.6	12652.5	12461.5	12551.4	12803.6	12973.4
15°	12394.1	12607.6	12874.8	12882.3	12662.5	12437.8	12521.4	12792.4	12957.2
17.5°	12341.7	12547.7	12801.1	12827.3	12606.3	12377.9	12462.8	12705.0	12836.1
20°	12254.3	12439.0	12645.1	12688.7	12480.2	12263.0	12337.9	12546.4	12652.5
22.5°	12087.0	12255.5	12425.3	12457.8	12290.5	12100.7	12138.2	12300.5	12389.1
25°	11864.7	12032.0	12180.6	12198.1	12058.2	11888.4	11903.4	12027.0	12116.9
27.5°	11470.2	11628.8	11763.6	11784.8	11701.2	11520.1	11492.7	11551.3	11588.8
30°	10935.8	11044.4	11156.8	11224.2	11126.8	10977.0	10899.6	10930.8	10897.1
32.5°	10294.1	10405.2	10473.9	10495.1	10480.1	10349.0	10257.9	10179.2	10184.2
35°	9540.0	9641.1	9679.8	9718.5	9707.3	9604.9	9508.8	9435.1	9421.4
37.5°	8749.7	8817.1	8860.8	8890.7	8865.8	8800.8	8676.0	8548.6	8527.4
40°	7822.0	7924.4	7889.4	7904.4	7880.7	7798.3	7673.4	7601.0	7581.0
42.5°	6733.3	6823.2	6815.7	6820.7	6768.2	6655.9	6547.3	6507.3	6486.1
45°	5669.5	5713.2	5697.0	5644.6	5623.4	5553.4	5434.8	5358.7	5408.6
47.5°	4668.2	4653.2	4544.6	4502.2	4471.0	4481.0	4454.7	4321.1	4248.7
50°	3661.9	3623.2	3519.6	3455.9	3490.9	3518.3	3421.0	3341.1	3252.4
52.5°	2715.5	2723.0	2624.4	2554.5	2586.9	2591.9	2534.5	2489.6	2463.3
55°	1944.0	1944.0	1884.0	1861.5	1874.0	1850.3	1810.4	1795.4	1755.4
57.5°	1322.2	1330.9	1327.2	1301.0	1242.3	1221.1	1198.6	1221.1	1234.8
60°	850.2	871.5	867.7	865.2	815.3	765.3	786.6	806.5	809.0
62.5°	523.1	533.1	550.6	535.6	510.6	470.7	465.7	495.7	523.1
65°	302.1	313.4	327.1	317.1	290.9	284.7	277.2	293.4	298.4
67.5°	172.3	167.3	168.6	161.1	153.6	144.8	146.1	153.6	164.8
70°	91.1	78.7	79.9	72.4	78.7	69.9	67.4	73.7	76.2
72.5°	46.2	44.9	51.2	51.2	54.9	48.7	48.7	46.2	52.4
75°	27.5	31.2	33.7	37.5	30.0	28.7	28.7	28.7	30.0
77.5°	7.5	3.7	5.0	16.2	6.2	12.5	6.2	5.0	11.2
80°	21.2	12.5	7.5	13.7	15.0	7.5	18.7	17.5	5.0
82.5°	7.5	0.0	13.7	15.0	12.5	12.5	15.0	15.0	13.7
85°	11.2	7.5	16.2	18.7	21.2	12.5	10.0	6.2	8.7
87.5°	5.0	0.0	7.5	6.2	3.7	1.2	3.7	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)