

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: P247885

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247885
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 ER8B200840 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23980.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

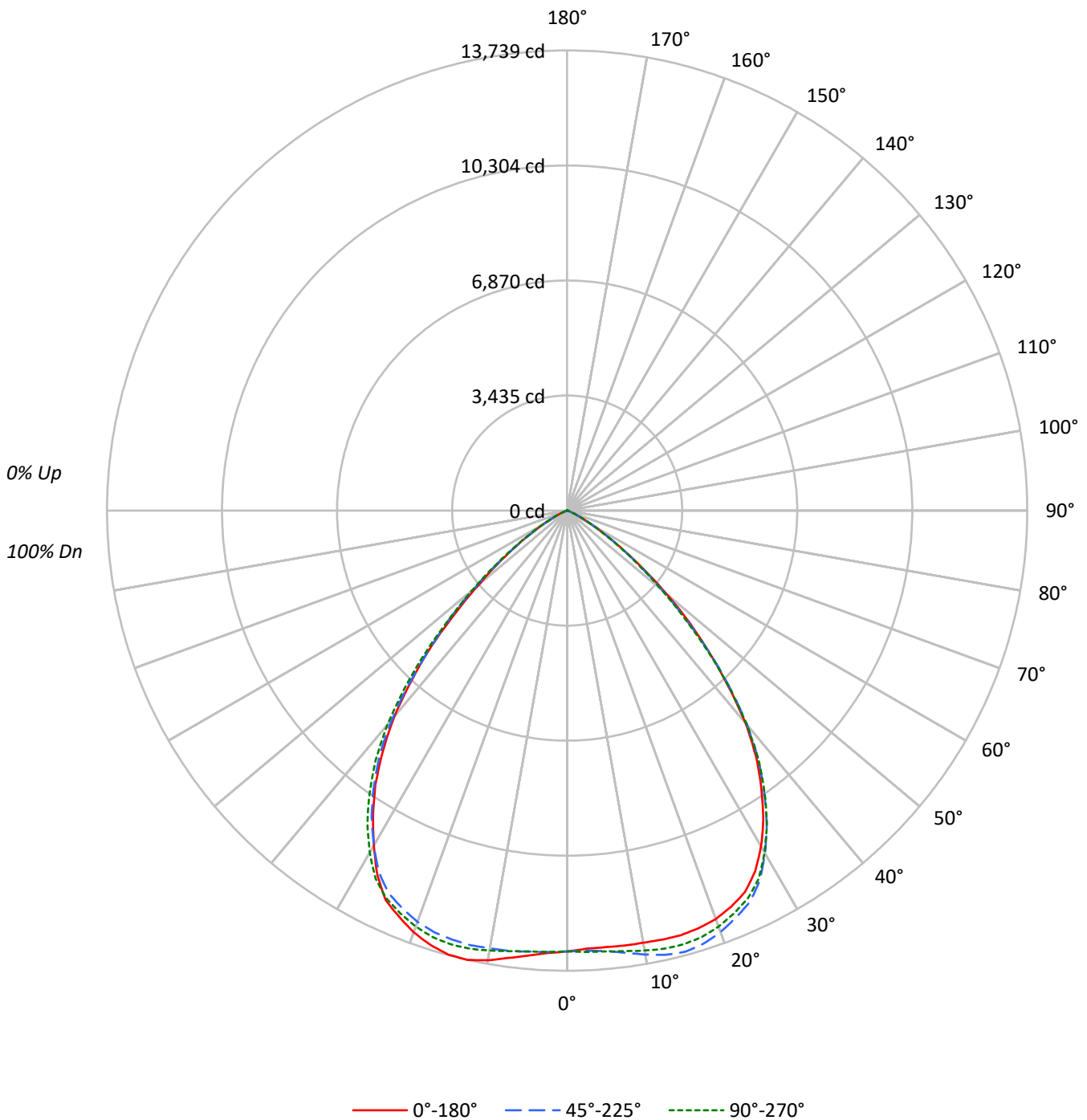
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	405840	405840	405840
5°	405056	408944	412751
10°	410153	417646	426921
15°	419017	428089	438053
20°	425854	433707	439692
25°	427503	434478	436591
30°	412361	419565	410901
35°	380312	386982	375584
40°	333444	335943	323171
45°	261834	259697	249780
50°	186038	177346	165233
55°	110673	106695	99943
60°	55530	53248	52841
65°	23349	22480	23057
70°	8700	7510	7276
75°	3467	3777	3777
80°	3996	2824	941
85°	4210	7961	3290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1265.7	5.3
10°-20°	3789.6	15.8
20°-30°	5824.2	24.3
30°-40°	6300.7	26.3
40°-50°	4541.4	18.9
50°-60°	1843.5	7.7
60°-70°	368.2	1.5
70°-80°	36.9	0.2
80°-90°	9.9	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°	10879.5	45.4
0°-40°	17180.2	71.6
0°-60°	23565.0	98.3
0°-90°	23980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23980.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13161	13161	13161	13161	13161	
5°	13086	13197	13211	13217	13334	###
15°	13125	13634	13410	13260	13722	3708
25°	12565	12899	12770	12606	12832	5743
35°	10103	10251	10280	10070	9977	6274
45°	6004	6033	5955	5756	5728	4631
55°	2059	1995	1985	1917	1859	1931
65°	320	346	308	294	316	381
75°	29	36	32	30	32	38
85°	12	17	22	11	9	10
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°	13161.1	13161.1	13161.1	13161.1	13161.1	13161.1	13161.1	13161.1	13161.1
2.5°	13093.6	13176.9	13149.2	13113.5	13188.8	13174.3	13190.1	13196.7	13221.9
5°	13085.7	13179.6	13196.7	13158.4	13211.3	13186.2	13216.6	13273.4	13334.3
7.5°	13098.9	13240.4	13314.4	13291.9	13266.8	13180.9	13260.2	13391.1	13471.8
10°	13098.9	13286.7	13458.5	13457.2	13338.2	13178.2	13266.8	13492.9	13634.4
12.5°	13120.1	13350.1	13585.5	13601.3	13399.0	13196.7	13291.9	13559.0	13738.8
15°	13125.4	13351.4	13634.4	13642.3	13409.6	13171.6	13260.2	13547.1	13721.7
17.5°	13069.8	13288.0	13556.4	13584.2	13350.1	13108.2	13198.1	13454.6	13593.4
20°	12977.3	13173.0	13391.1	13437.4	13216.6	12986.5	13065.9	13286.7	13399.0
22.5°	12800.1	12978.6	13158.4	13192.8	13015.6	12814.6	12854.3	13026.2	13120.1
25°	12564.7	12741.9	12899.3	12917.8	12769.7	12589.9	12605.7	12736.6	12831.8
27.5°	12146.9	12314.9	12457.6	12480.1	12391.5	12199.8	12170.7	12232.9	12272.5
30°	11581.0	11696.1	11815.1	11886.5	11783.3	11624.7	11542.7	11575.7	11540.0
32.5°	10901.4	11019.1	11091.8	11114.3	11098.4	10959.6	10863.1	10779.8	10785.1
35°	10102.8	10209.9	10250.9	10291.9	10280.0	10171.6	10069.8	9991.8	9977.2
37.5°	9265.9	9337.3	9383.6	9415.3	9388.9	9320.1	9187.9	9053.0	9030.5
40°	8283.5	8391.9	8354.9	8370.8	8345.6	8258.4	8126.2	8049.5	8028.3
42.5°	7130.6	7225.8	7217.8	7223.1	7167.6	7048.6	6933.5	6891.2	6868.8
45°	6004.1	6050.3	6033.1	5977.6	5955.1	5881.1	5755.5	5674.8	5727.7
47.5°	4943.7	4927.8	4812.8	4767.8	4734.8	4745.3	4717.6	4576.1	4499.4
50°	3878.0	3837.0	3727.2	3659.8	3696.8	3725.9	3622.8	3538.2	3444.3
52.5°	2875.8	2883.7	2779.2	2705.2	2739.6	2744.9	2684.0	2636.4	2608.7
55°	2058.6	2058.6	1995.2	1971.4	1984.6	1959.5	1917.2	1901.3	1859.0
57.5°	1400.2	1409.5	1405.5	1377.7	1315.6	1293.1	1269.3	1293.1	1307.6
60°	900.4	922.9	918.9	916.3	863.4	810.5	833.0	854.1	856.8
62.5°	554.0	564.6	583.1	567.2	540.8	498.5	493.2	524.9	554.0
65°	320.0	331.9	346.4	335.8	308.1	301.5	293.5	310.7	316.0
67.5°	182.5	177.2	178.5	170.6	162.6	153.4	154.7	162.6	174.5
70°	96.5	83.3	84.6	76.7	83.3	74.0	71.4	78.0	80.7
72.5°	48.9	47.6	54.2	54.2	58.2	51.6	51.6	48.9	55.5
75°	29.1	33.1	35.7	39.7	31.7	30.4	30.4	30.4	31.7
77.5°	7.9	4.0	5.3	17.2	6.6	13.2	6.6	5.3	11.9
80°	22.5	13.2	7.9	14.5	15.9	7.9	19.8	18.5	5.3
82.5°	7.9	0.0	14.5	15.9	13.2	13.2	15.9	15.9	14.5
85°	11.9	7.9	17.2	19.8	22.5	13.2	10.6	6.6	9.3
87.5°	5.3	0.0	7.9	6.6	4.0	1.3	4.0	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)