

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: P247900

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247900
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 ER8B200940 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21499.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

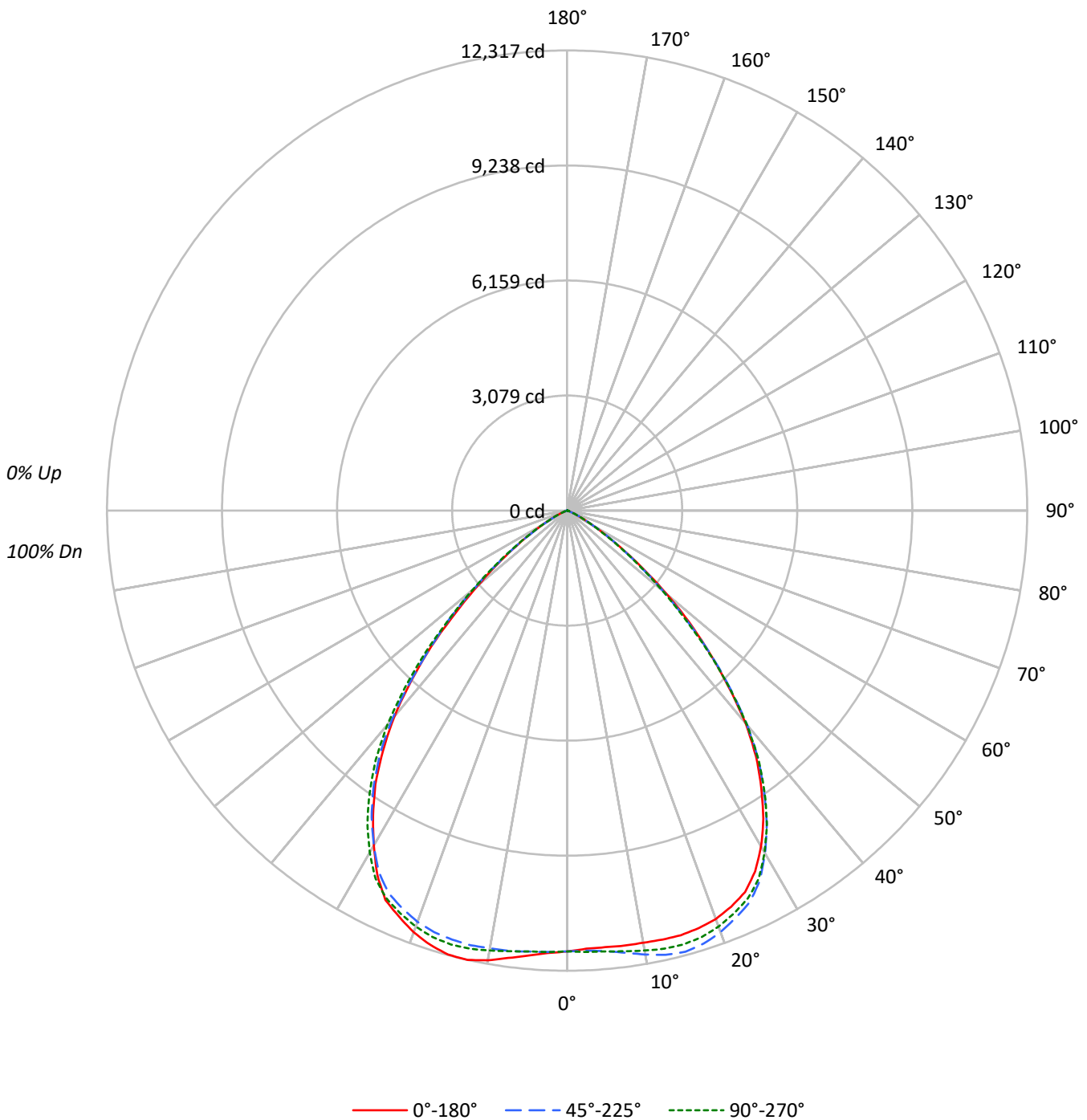
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	363850	363850	363850
5°	363147	366633	370047
10°	367719	374435	382752
15°	375664	383798	392730
20°	381793	388835	394204
25°	383275	389525	391420
30°	369697	376156	368391
35°	340966	346944	336727
40°	298946	301188	289736
45°	234744	232829	223937
50°	166792	159001	148135
55°	99228	95658	89604
60°	49788	47741	47371
65°	20934	20153	20671
70°	7799	6735	6519
75°	3110	3384	3384
80°	3587	2522	835
85°	3786	7147	2937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1134.7	5.3
10°-20°	3397.5	15.8
20°-30°	5221.6	24.3
30°-40°	5648.8	26.3
40°-50°	4071.6	18.9
50°-60°	1652.7	7.7
60°-70°	330.1	1.5
70°-80°	33.1	0.2
80°-90°	8.9	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°	9753.9	45.4
0°-40°	15402.7	71.6
0°-60°	21127.0	98.3
0°-90°	21499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21499.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11799	11799	11799	11799	11799	
5°	11732	11831	11844	11849	11955	###
15°	11767	12224	12022	11888	12302	3325
25°	11265	11565	11448	11302	11504	5149
35°	9058	9190	9216	9028	8945	5625
45°	5383	5409	5339	5160	5135	4152
55°	1846	1789	1779	1719	1667	1731
65°	287	311	276	263	283	342
75°	26	32	28	27	28	34
85°	11	15	20	10	8	9
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°	11799.4	11799.4	11799.4	11799.4	11799.4	11799.4	11799.4	11799.4	11799.4
2.5°	11738.9	11813.6	11788.7	11756.7	11824.3	11811.2	11825.5	11831.4	11853.9
5°	11731.8	11816.0	11831.4	11797.0	11844.4	11821.9	11849.2	11900.2	11954.7
7.5°	11743.7	11870.5	11936.9	11916.7	11894.2	11817.2	11888.3	12005.7	12078.0
10°	11743.7	11912.0	12066.1	12064.9	11958.2	11814.8	11894.2	12096.9	12223.8
12.5°	11762.6	11968.9	12179.9	12194.1	12012.8	11831.4	11916.7	12156.2	12317.4
15°	11767.4	11970.1	12223.8	12230.9	12022.2	11808.9	11888.3	12145.5	12302.0
17.5°	11717.6	11913.2	12153.8	12178.7	11968.9	11752.0	11832.6	12062.5	12187.0
20°	11634.6	11810.1	12005.7	12047.1	11849.2	11642.9	11714.0	11912.0	12012.8
22.5°	11475.8	11635.8	11797.0	11827.8	11669.0	11488.8	11524.4	11678.5	11762.6
25°	11264.8	11423.6	11564.7	11581.3	11448.5	11287.3	11301.5	11418.9	11504.2
27.5°	10890.2	11040.7	11168.8	11188.9	11109.5	10937.6	10911.5	10967.2	11002.8
30°	10382.8	10486.0	10592.7	10656.7	10564.2	10422.0	10348.5	10378.1	10346.1
32.5°	9773.6	9879.1	9944.3	9964.4	9950.2	9825.7	9739.2	9664.5	9669.2
35°	9057.6	9153.6	9190.3	9227.1	9216.4	9119.2	9027.9	8958.0	8945.0
37.5°	8307.2	8371.2	8412.7	8441.2	8417.5	8355.8	8237.3	8116.4	8096.2
40°	7426.5	7523.7	7490.5	7504.7	7482.2	7404.0	7285.4	7216.7	7197.7
42.5°	6392.8	6478.2	6471.1	6475.8	6426.0	6319.3	6216.2	6178.3	6158.1
45°	5382.9	5424.4	5408.9	5359.2	5339.0	5272.6	5160.0	5087.7	5135.1
47.5°	4432.2	4418.0	4314.8	4274.5	4244.9	4254.4	4229.5	4102.6	4033.9
50°	3476.8	3440.0	3341.6	3281.2	3314.4	3340.4	3248.0	3172.1	3087.9
52.5°	2578.2	2585.3	2491.7	2425.3	2456.1	2460.9	2406.3	2363.7	2338.8
55°	1845.7	1845.7	1788.8	1767.4	1779.3	1756.8	1718.8	1704.6	1666.7
57.5°	1255.3	1263.6	1260.1	1235.2	1179.5	1159.3	1138.0	1159.3	1172.4
60°	807.3	827.4	823.8	821.5	774.1	726.6	746.8	765.8	768.1
62.5°	496.7	506.2	522.8	508.5	484.8	446.9	442.2	470.6	496.7
65°	286.9	297.5	310.6	301.1	276.2	270.3	263.2	278.6	283.3
67.5°	163.6	158.8	160.0	152.9	145.8	137.5	138.7	145.8	156.5
70°	86.5	74.7	75.9	68.8	74.7	66.4	64.0	69.9	72.3
72.5°	43.9	42.7	48.6	48.6	52.2	46.2	46.2	43.9	49.8
75°	26.1	29.6	32.0	35.6	28.4	27.3	27.3	27.3	28.4
77.5°	7.1	3.6	4.7	15.4	5.9	11.9	5.9	4.7	10.7
80°	20.2	11.9	7.1	13.0	14.2	7.1	17.8	16.6	4.7
82.5°	7.1	0.0	13.0	14.2	11.9	11.9	14.2	14.2	13.0
85°	10.7	7.1	15.4	17.8	20.2	11.9	9.5	5.9	8.3
87.5°	4.7	0.0	7.1	5.9	3.6	1.2	3.6	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)