

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: P247951

Luminaire Tested: **LD8B200D010 ER8B200830 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200830 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22560.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

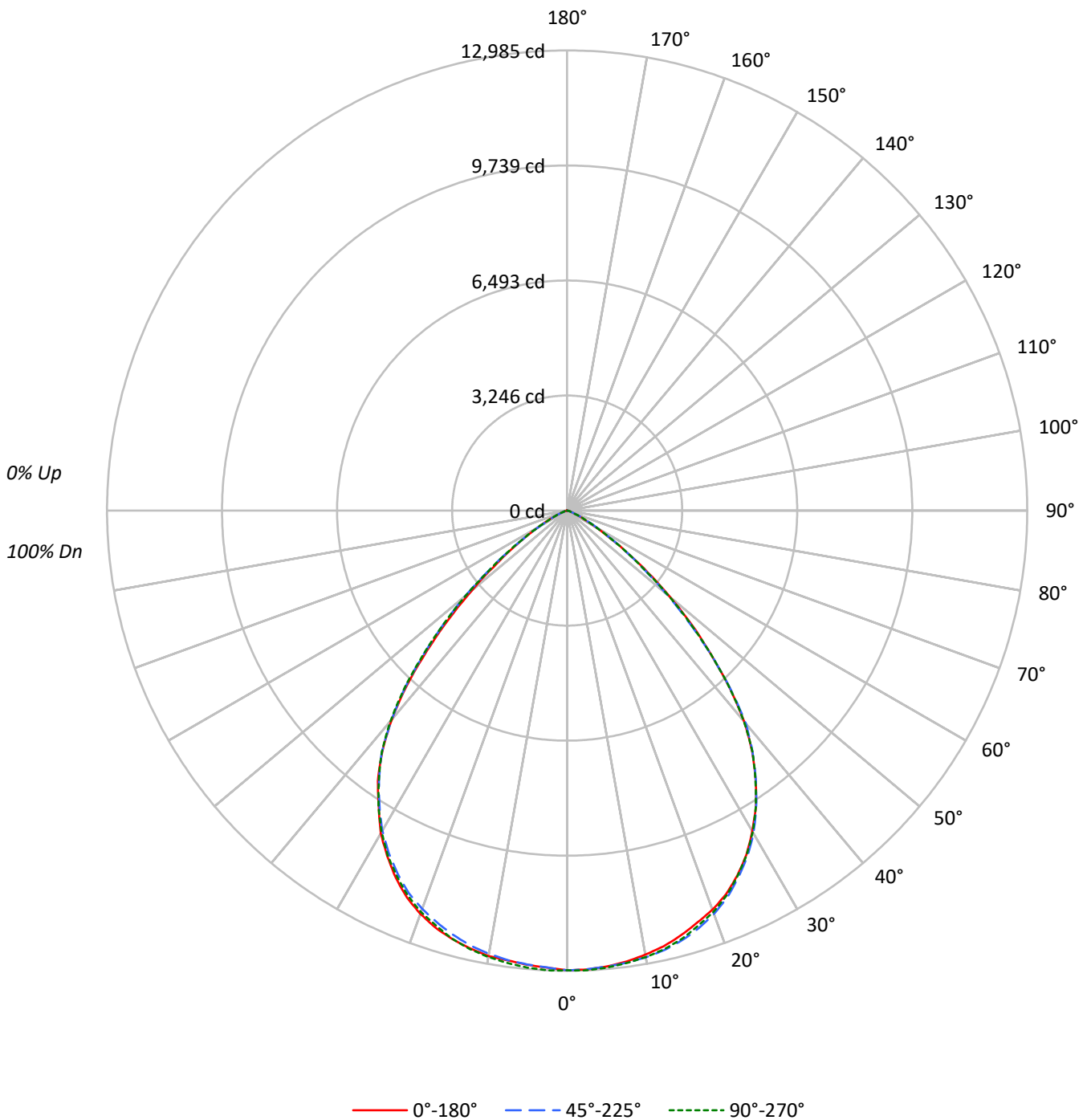
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	400012	400012	400012
5°	399717	400667	398249
10°	398326	400531	399651
15°	396184	399374	399658
20°	393301	395612	397377
25°	386630	387065	389239
30°	371983	372806	374490
35°	349236	348608	350633
40°	313119	312298	310080
45°	250090	250033	243727
50°	180747	179030	168716
55°	110776	109948	104926
60°	56905	59119	58250
65°	27734	28858	29325
70°	11883	12235	11658
75°	9305	9305	8078
80°	5008	4546	4084
85°	4069	2724	5873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1228.2	5.4
10°-20°	3522.9	15.6
20°-30°	5233.6	23.2
30°-40°	5767.7	25.6
40°-50°	4393.0	19.5
50°-60°	1893.7	8.4
60°-70°	435.0	1.9
70°-80°	72.3	0.3
80°-90°	13.6	0.1
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°	9984.7	44.3
0°-40°	15752.4	69.8
0°-60°	22039.1	97.7
0°-90°	22560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22560.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12972	12972	12972	12972	12972	
5°	12913	12912	12944	12857	12866	###
15°	12410	12548	12510	12399	12519	3501
25°	11363	11427	11376	11310	11440	5215
35°	9277	9282	9261	9253	9314	5760
45°	5735	5723	5734	5703	5589	4424
55°	2060	2059	2045	2058	1952	1921
65°	380	417	396	393	402	425
75°	78	78	78	79	68	72
85°	12	8	8	23	17	12
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°	12972.1	12972.1	12972.1	12972.1	12972.1	12972.1	12972.1	12972.1	12972.1
2.5°	12958.0	12959.3	12950.3	12969.5	12984.9	12935.0	12905.5	12972.1	12908.1
5°	12913.2	12922.2	12911.9	12936.2	12943.9	12903.0	12856.9	12928.6	12865.8
7.5°	12836.4	12854.3	12869.7	12897.8	12877.4	12826.2	12795.5	12879.9	12803.1
10°	12721.2	12766.0	12799.3	12841.5	12791.6	12736.6	12699.5	12814.7	12763.5
12.5°	12592.0	12643.2	12699.5	12750.7	12675.2	12594.5	12575.3	12698.2	12652.1
15°	12410.2	12457.6	12548.5	12597.1	12510.1	12417.9	12398.7	12554.9	12519.0
17.5°	12196.5	12279.7	12356.5	12394.9	12284.8	12205.5	12195.2	12356.5	12342.4
20°	11985.3	12030.1	12109.5	12160.7	12055.7	11961.0	11957.2	12123.6	12109.5
22.5°	11717.9	11757.5	11810.0	11857.4	11758.8	11679.5	11684.6	11821.5	11819.0
25°	11363.4	11390.2	11427.4	11479.8	11376.2	11319.8	11309.6	11455.5	11440.1
27.5°	10950.0	10967.9	11010.1	11054.9	10965.3	10915.4	10897.5	11043.4	10992.2
30°	10447.0	10488.0	10517.4	10536.6	10470.1	10439.3	10426.5	10541.7	10517.4
32.5°	9913.3	9927.4	9928.7	9976.1	9905.7	9862.2	9862.2	9954.3	9899.3
35°	9277.3	9274.7	9282.4	9333.6	9260.6	9276.0	9253.0	9325.9	9314.4
37.5°	8579.8	8591.3	8593.9	8634.8	8593.9	8604.1	8595.1	8606.7	8569.6
40°	7778.6	7828.5	7845.2	7837.5	7758.2	7731.3	7708.2	7750.5	7703.1
42.5°	6784.2	6807.3	6809.8	6814.9	6793.2	6789.3	6761.2	6779.1	6704.9
45°	5734.8	5745.0	5723.3	5719.4	5733.5	5755.3	5702.8	5661.8	5588.9
47.5°	4776.2	4740.4	4641.8	4677.7	4693.0	4748.1	4691.8	4581.7	4521.5
50°	3767.7	3730.6	3655.1	3671.8	3731.9	3815.1	3749.8	3597.5	3516.9
52.5°	2878.3	2836.0	2751.6	2766.9	2784.8	2847.6	2813.0	2709.3	2631.3
55°	2060.5	2031.0	2059.2	2036.2	2045.1	2105.3	2057.9	1972.2	1951.7
57.5°	1392.4	1409.1	1432.1	1435.9	1418.0	1400.1	1393.7	1360.4	1378.3
60°	922.7	935.5	973.9	985.4	958.6	920.2	927.9	927.9	944.5
62.5°	596.4	607.9	652.7	660.4	622.0	611.7	611.7	607.9	638.6
65°	380.1	403.1	417.2	396.7	395.5	381.4	392.9	392.9	401.9
67.5°	227.8	207.3	221.4	230.4	221.4	209.9	207.3	208.6	221.4
70°	131.8	126.7	135.7	130.5	135.7	117.7	131.8	125.4	129.3
72.5°	84.5	83.2	83.2	88.3	83.2	80.6	85.7	74.2	81.9
75°	78.1	78.1	78.1	67.8	78.1	75.5	79.3	60.2	67.8
77.5°	30.7	35.8	43.5	42.2	42.2	39.7	35.8	30.7	47.4
80°	28.2	25.6	34.6	41.0	25.6	30.7	34.6	21.8	23.0
82.5°	14.1	12.8	16.6	16.6	16.6	9.0	23.0	14.1	11.5
85°	11.5	5.1	7.7	7.7	7.7	10.2	23.0	6.4	16.6
87.5°	2.6	3.8	6.4	6.4	7.7	12.8	23.0	5.1	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)