

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: P247960

Luminaire Tested: **LD8B200D010 ER8B200850 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247960
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 ER8B200850 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23763.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

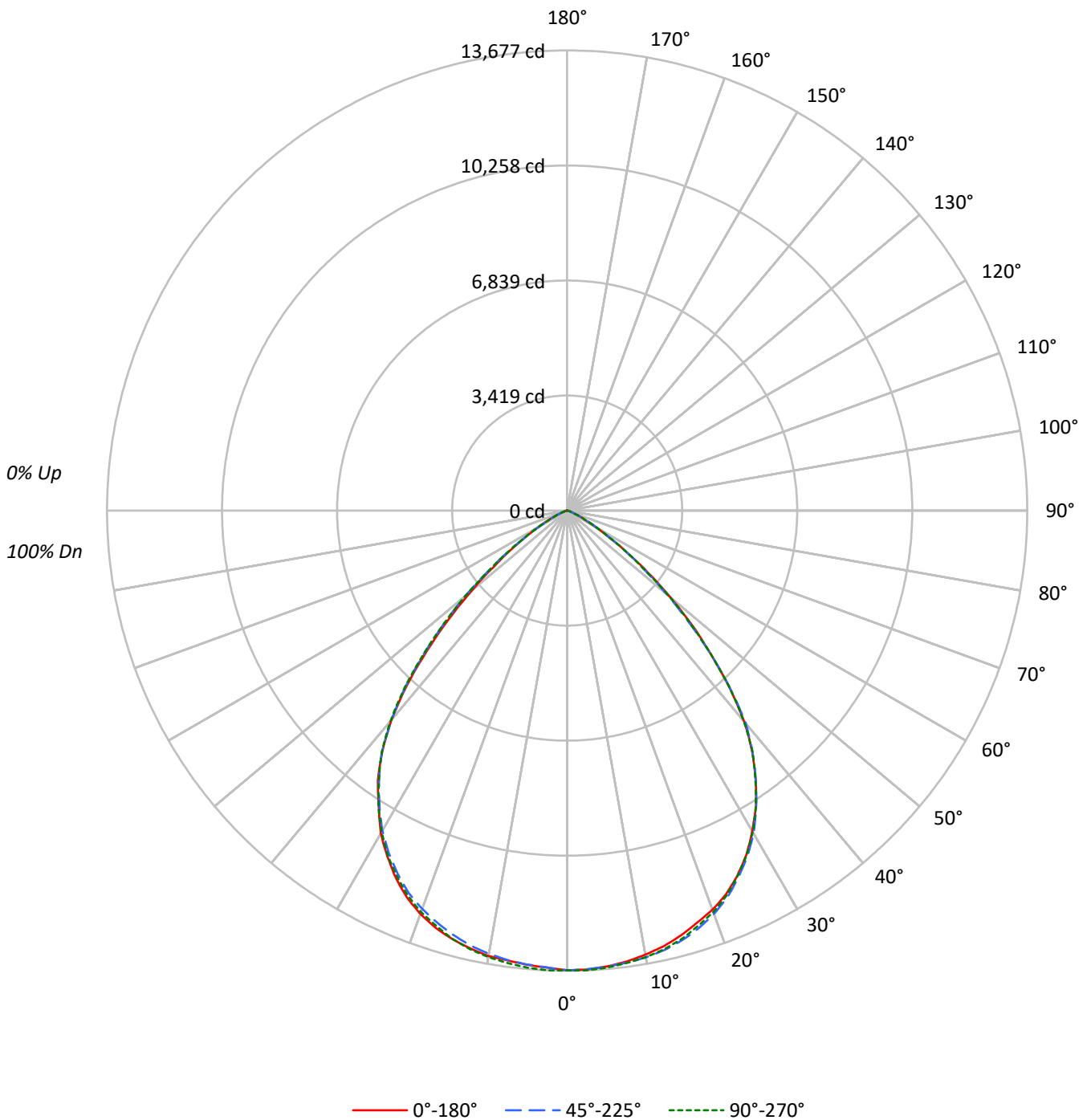
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	421341	421341	421341
5°	421032	422031	419487
10°	419568	421889	420962
15°	417312	420670	420970
20°	414277	416709	418566
25°	407245	407704	409997
30°	391820	392685	394458
35°	367859	367200	369331
40°	329817	328951	326617
45°	263425	263364	256723
50°	190385	188576	177710
55°	116684	115813	110523
60°	59940	62271	61358
65°	29215	30390	30886
70°	12514	12884	12280
75°	9794	9794	8507
80°	5274	4795	4315
85°	4281	2866	6192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1293.6	5.4
10°-20°	3710.7	15.6
20°-30°	5512.7	23.2
30°-40°	6075.2	25.6
40°-50°	4627.3	19.5
50°-60°	1994.7	8.4
60°-70°	458.2	1.9
70°-80°	76.1	0.3
80°-90°	14.3	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°	10517.1	44.3
0°-40°	16592.3	69.8
0°-60°	23214.3	97.7
0°-90°	23763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23763.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13664	13664	13664	13664	13664	
5°	13602	13600	13634	13542	13552	###
15°	13072	13218	13177	13060	13187	3687
25°	11969	12037	11983	11913	12050	5493
35°	9772	9777	9754	9746	9811	6067
45°	6041	6028	6039	6007	5887	4660
55°	2170	2169	2154	2168	2056	2024
65°	400	440	416	414	423	447
75°	82	82	82	84	71	76
85°	12	8	8	24	18	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°	13663.8	13663.8	13663.8	13663.8	13663.8	13663.8	13663.8	13663.8	13663.8
2.5°	13649.0	13650.3	13640.9	13661.1	13677.3	13624.7	13593.7	13663.8	13596.4
5°	13601.8	13611.2	13600.4	13626.1	13634.1	13591.0	13542.5	13618.0	13551.9
7.5°	13520.9	13539.8	13556.0	13585.6	13564.0	13510.1	13477.8	13566.7	13485.9
10°	13399.6	13446.8	13481.8	13526.3	13473.7	13415.8	13376.7	13498.0	13444.1
12.5°	13263.4	13317.4	13376.7	13430.6	13351.1	13266.1	13245.9	13375.3	13326.8
15°	13072.0	13121.9	13217.6	13268.8	13177.2	13080.1	13059.9	13224.3	13186.6
17.5°	12846.9	12934.5	13015.4	13055.8	12939.9	12856.3	12845.5	13015.4	13000.6
20°	12624.5	12671.6	12755.2	12809.1	12698.6	12598.8	12594.8	12770.0	12755.2
22.5°	12342.7	12384.5	12439.8	12489.7	12385.9	12302.3	12307.7	12451.9	12449.2
25°	11969.3	11997.6	12036.7	12092.0	11982.8	11923.5	11912.7	12066.4	12050.2
27.5°	11533.9	11552.8	11597.2	11644.4	11550.1	11497.5	11478.6	11632.3	11578.4
30°	11004.1	11047.2	11078.2	11098.5	11028.4	10996.0	10982.5	11103.9	11078.2
32.5°	10442.0	10456.8	10458.1	10508.0	10433.9	10388.0	10388.0	10485.1	10427.1
35°	9772.0	9769.3	9777.4	9831.3	9754.5	9770.6	9746.4	9823.2	9811.1
37.5°	9037.3	9049.4	9052.1	9095.3	9052.1	9062.9	9053.5	9065.6	9026.5
40°	8193.4	8246.0	8263.5	8255.4	8171.9	8143.5	8119.3	8163.8	8113.9
42.5°	7146.0	7170.3	7173.0	7178.3	7155.4	7151.4	7121.7	7140.6	7062.4
45°	6040.6	6051.4	6028.5	6024.4	6039.2	6062.2	6006.9	5963.8	5886.9
47.5°	5030.9	4993.2	4889.4	4927.1	4943.3	5001.3	4941.9	4826.0	4762.6
50°	3968.6	3929.6	3850.0	3867.5	3930.9	4018.5	3949.8	3789.4	3704.4
52.5°	3031.8	2987.3	2898.3	2914.5	2933.3	2999.4	2963.0	2853.8	2771.6
55°	2170.4	2139.3	2169.0	2144.7	2154.2	2217.5	2167.7	2077.3	2055.8
57.5°	1466.7	1484.2	1508.5	1512.5	1493.6	1474.8	1468.0	1433.0	1451.8
60°	971.9	985.4	1025.9	1038.0	1009.7	969.2	977.3	977.3	994.9
62.5°	628.2	640.3	687.5	695.6	655.2	644.4	644.4	640.3	672.7
65°	400.4	424.6	439.5	417.9	416.5	401.7	413.9	413.9	423.3
67.5°	240.0	218.4	233.2	242.6	233.2	221.1	218.4	219.7	233.2
70°	138.8	133.5	142.9	137.5	142.9	124.0	138.8	132.1	136.2
72.5°	89.0	87.6	87.6	93.0	87.6	84.9	90.3	78.2	86.3
75°	82.2	82.2	82.2	71.4	82.2	79.5	83.6	63.4	71.4
77.5°	32.4	37.7	45.8	44.5	44.5	41.8	37.7	32.4	49.9
80°	29.7	27.0	36.4	43.1	27.0	32.4	36.4	22.9	24.3
82.5°	14.8	13.5	17.5	17.5	17.5	9.4	24.3	14.8	12.1
85°	12.1	5.4	8.1	8.1	8.1	10.8	24.3	6.7	17.5
87.5°	2.7	4.0	6.7	6.7	8.1	13.5	24.3	5.4	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)