

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: P247975

Luminaire Tested: **LD8B200D010 ER8B200950 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247975
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 ER8B200950 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21634.0 lumens
Efficiency: N/A
Efficacy: 96.9 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

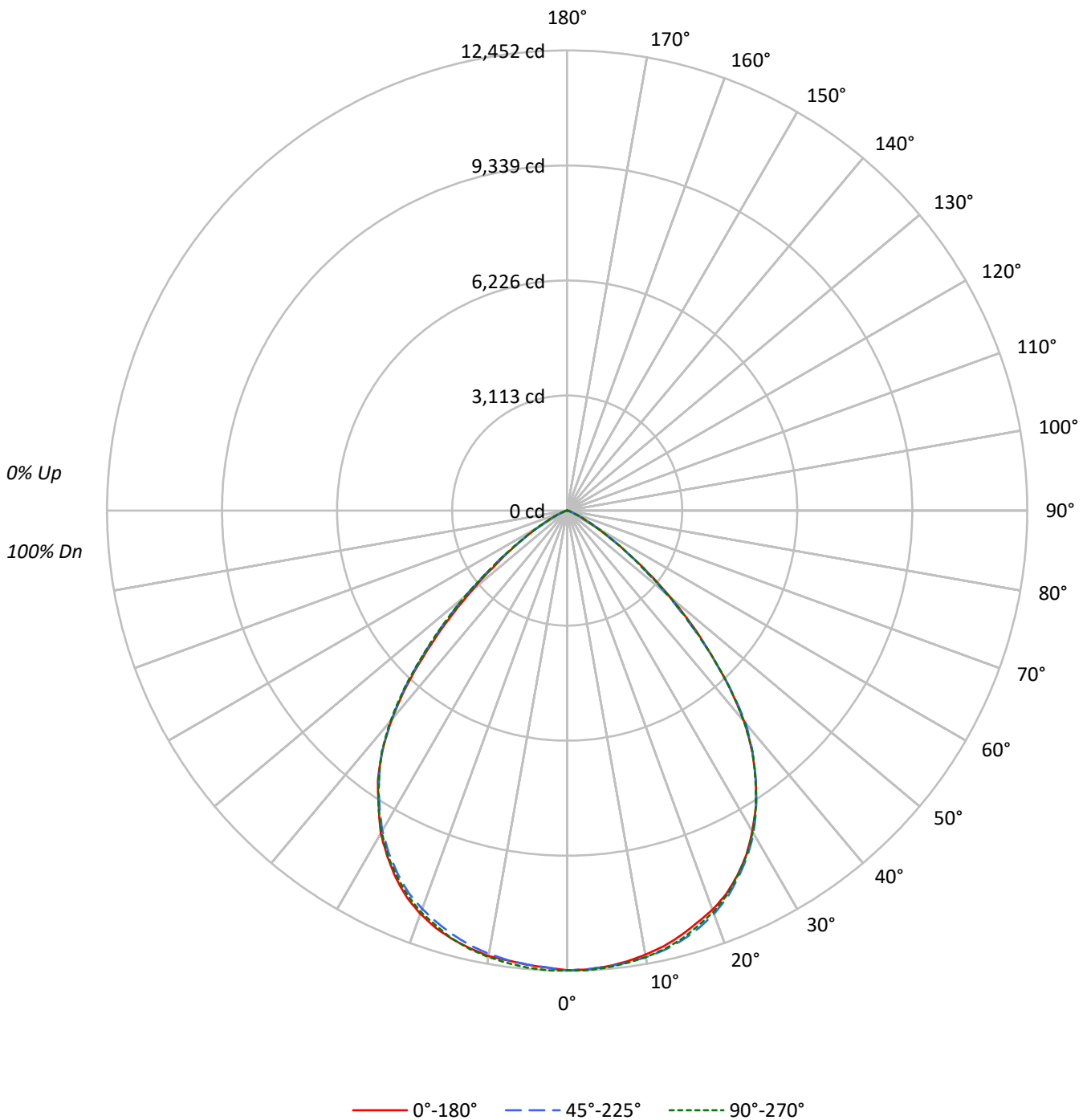
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	383591	383591	383591
5°	383311	384221	381906
10°	381978	384092	383247
15°	379922	382981	383255
20°	377160	379375	381065
25°	370757	371176	373265
30°	356715	357502	359119
35°	334902	334299	336242
40°	300270	299477	297352
45°	239824	239772	233723
50°	173330	171680	161788
55°	106227	105437	100620
60°	54574	56689	55857
65°	26596	27668	28121
70°	11396	11730	11180
75°	8924	8924	7744
80°	4795	4351	3925
85°	3892	2618	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1177.7	5.4
10°-20°	3378.3	15.6
20°-30°	5018.8	23.2
30°-40°	5530.9	25.6
40°-50°	4212.7	19.5
50°-60°	1816.0	8.4
60°-70°	417.2	1.9
70°-80°	69.3	0.3
80°-90°	13.0	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°	9574.9	44.3
0°-40°	15105.8	69.8
0°-60°	21134.5	97.7
0°-90°	21634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21634.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12440	12440	12440	12440	12440	
5°	12383	12382	12413	12329	12338	###
15°	11901	12033	11997	11890	12005	3357
25°	10897	10958	10909	10845	10971	5001
35°	8896	8901	8880	8873	8932	5523
45°	5499	5488	5498	5469	5360	4242
55°	1976	1975	1961	1974	1872	1842
65°	364	400	379	377	385	407
75°	75	75	75	76	65	69
85°	11	7	7	22	16	11
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°	12439.6	12439.6	12439.6	12439.6	12439.6	12439.6	12439.6	12439.6	12439.6
2.5°	12426.1	12427.3	12418.8	12437.2	12451.9	12404.0	12375.8	12439.6	12378.3
5°	12383.2	12391.8	12381.9	12405.3	12412.6	12373.3	12329.2	12397.9	12337.8
7.5°	12309.5	12326.7	12341.4	12368.4	12348.8	12299.7	12270.3	12351.3	12277.6
10°	12199.1	12242.0	12273.9	12314.4	12266.6	12213.8	12178.2	12288.7	12239.6
12.5°	12075.1	12124.2	12178.2	12227.3	12154.9	12077.6	12059.2	12177.0	12132.8
15°	11900.8	11946.3	12033.4	12080.0	11996.6	11908.2	11889.8	12039.5	12005.2
17.5°	11695.9	11775.7	11849.3	11886.1	11780.6	11704.5	11694.7	11849.3	11835.8
20°	11493.4	11536.3	11612.4	11661.5	11560.9	11470.1	11466.4	11625.9	11612.4
22.5°	11236.9	11274.9	11325.3	11370.7	11276.2	11200.1	11205.0	11336.3	11333.8
25°	10896.9	10922.7	10958.3	11008.6	10909.2	10855.2	10845.4	10985.3	10970.6
27.5°	10500.5	10517.7	10558.2	10601.2	10515.3	10467.4	10450.2	10590.1	10541.0
30°	10018.2	10057.5	10085.7	10104.1	10040.3	10010.8	9998.6	10109.0	10085.7
32.5°	9506.4	9519.9	9521.2	9566.6	9499.1	9457.4	9457.4	9545.7	9492.9
35°	8896.5	8894.0	8901.4	8950.5	8880.5	8895.3	8873.2	8943.1	8932.1
37.5°	8227.6	8238.7	8241.1	8280.4	8241.1	8250.9	8242.4	8253.4	8217.8
40°	7459.4	7507.2	7523.2	7515.8	7439.7	7413.9	7391.9	7432.4	7386.9
42.5°	6505.8	6527.9	6530.3	6535.2	6514.4	6510.7	6483.7	6500.9	6429.7
45°	5499.4	5509.2	5488.4	5484.7	5498.2	5519.0	5468.7	5429.4	5359.5
47.5°	4580.2	4545.8	4451.3	4485.7	4500.4	4553.2	4499.2	4393.6	4335.9
50°	3613.1	3577.5	3505.1	3521.0	3578.7	3658.5	3595.9	3449.9	3372.5
52.5°	2760.1	2719.6	2638.6	2653.4	2670.5	2730.7	2697.5	2598.1	2523.3
55°	1975.9	1947.7	1974.7	1952.6	1961.2	2018.9	1973.5	1891.2	1871.6
57.5°	1335.3	1351.2	1373.3	1377.0	1359.8	1342.6	1336.5	1304.6	1321.8
60°	884.9	897.1	934.0	945.0	919.2	882.4	889.8	889.8	905.7
62.5°	571.9	583.0	625.9	633.3	596.5	586.6	586.6	583.0	612.4
65°	364.5	386.6	400.1	380.5	379.2	365.7	376.8	376.8	385.4
67.5°	218.5	198.8	212.3	220.9	212.3	201.3	198.8	200.0	212.3
70°	126.4	121.5	130.1	125.2	130.1	112.9	126.4	120.3	124.0
72.5°	81.0	79.8	79.8	84.7	79.8	77.3	82.2	71.2	78.5
75°	74.9	74.9	74.9	65.0	74.9	72.4	76.1	57.7	65.0
77.5°	29.5	34.4	41.7	40.5	40.5	38.0	34.4	29.5	45.4
80°	27.0	24.5	33.1	39.3	24.5	29.5	33.1	20.9	22.1
82.5°	13.5	12.3	16.0	16.0	16.0	8.6	22.1	13.5	11.0
85°	11.0	4.9	7.4	7.4	7.4	9.8	22.1	6.1	16.0
87.5°	2.5	3.7	6.1	6.1	7.4	12.3	22.1	4.9	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)