

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: P248125

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009730 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16361.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

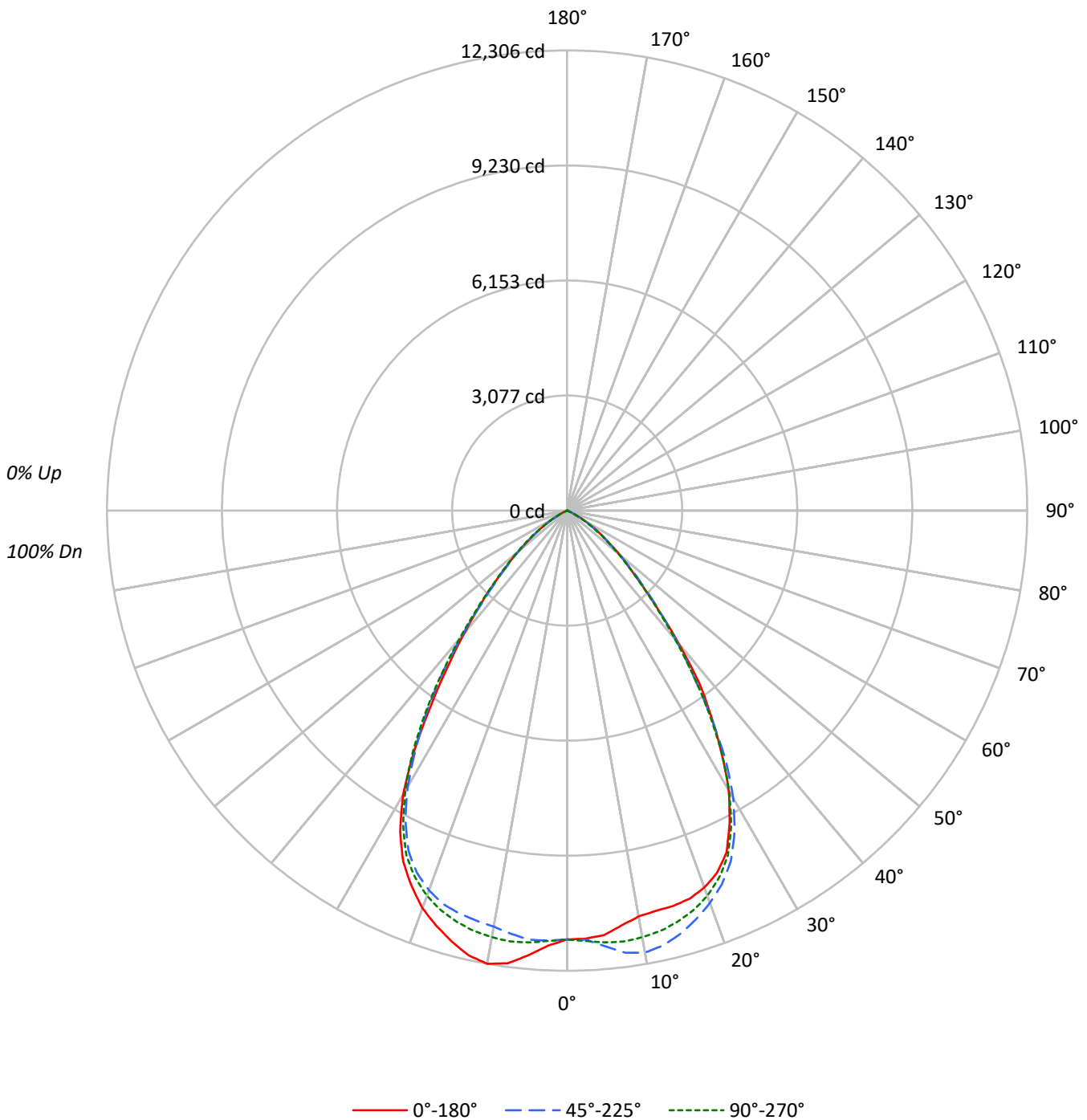
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.5	6.8
10°-20°	3217.6	19.7
20°-30°	4620.6	28.2
30°-40°	4084.4	25.0
40°-50°	2235.8	13.7
50°-60°	920.4	5.6
60°-70°	164.9	1.0
70°-80°	7.2	0.0
80°-90°	0.6	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°	8947.8	54.7
0°-40°	13032.2	79.7
0°-60°	16188.4	98.9
0°-90°	16361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16361.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11470	11470	11470	11470	11470	
5°	11392	11698	11591	11521	11937	###
15°	10944	11718	11388	11153	11929	3091
25°	10081	10353	10175	10040	10370	4560
35°	6714	6654	6615	6525	6329	4165
45°	2840	2923	2818	2698	2776	2286
55°	1089	1038	991	959	937	987
65°	174	136	126	101	104	203
75°	9	4	5	6	6	13
85°	2	2	0	6	0	1
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°	11469.8	11469.8	11469.8	11469.8	11469.8	11469.8	11469.8	11469.8	11469.8
2.5°	11455.1	11475.7	11485.5	11537.5	11519.8	11495.3	11509.0	11551.2	11642.3
5°	11392.4	11502.2	11698.2	11764.9	11591.4	11440.4	11520.8	11751.2	11937.4
7.5°	11185.5	11462.0	11925.7	12026.6	11624.7	11277.7	11417.9	11914.9	12209.0
10°	11019.8	11363.0	12000.2	12150.2	11584.5	11135.5	11299.2	11907.0	12306.0
12.5°	10964.0	11280.6	11906.1	12075.7	11516.9	11085.5	11229.6	11792.3	12182.5
15°	10944.4	11198.3	11717.8	11854.1	11388.4	11036.5	11153.2	11605.1	11928.6
17.5°	10883.6	11072.8	11460.0	11570.8	11212.0	10939.5	11029.6	11380.6	11640.4
20°	10726.7	10887.5	11165.9	11243.4	10960.0	10746.3	10804.2	11067.9	11314.9
22.5°	10481.6	10585.6	10811.0	10848.3	10623.8	10453.2	10489.5	10686.5	10866.9
25°	10080.7	10153.2	10353.2	10363.0	10174.8	10025.8	10040.5	10205.2	10369.9
27.5°	9406.2	9543.5	9690.5	9732.7	9496.4	9321.9	9367.0	9476.8	9669.9
30°	8640.6	8741.6	8885.7	8853.3	8663.1	8506.3	8524.9	8622.9	8767.1
32.5°	7685.8	7792.6	7866.1	7799.5	7703.4	7563.2	7521.1	7563.2	7602.4
35°	6714.3	6750.5	6654.5	6616.2	6615.2	6572.1	6525.0	6397.6	6329.0
37.5°	5786.9	5673.1	5500.6	5427.1	5511.4	5616.3	5475.1	5308.5	5222.2
40°	4638.9	4641.8	4534.0	4457.5	4488.9	4453.6	4391.9	4285.0	4259.5
42.5°	3626.2	3637.0	3671.3	3628.2	3552.7	3438.0	3403.7	3408.6	3484.1
45°	2840.0	2861.6	2923.3	2917.4	2818.4	2745.9	2697.9	2765.5	2776.3
47.5°	2258.7	2289.1	2314.5	2312.6	2236.1	2163.6	2142.0	2154.8	2181.2
50°	1826.3	1823.4	1803.8	1778.3	1746.9	1732.2	1707.7	1705.8	1705.8
52.5°	1406.8	1411.7	1372.5	1374.4	1359.7	1318.5	1307.8	1286.2	1286.2
55°	1089.1	1069.5	1038.2	1007.8	991.1	962.7	958.8	936.2	937.2
57.5°	773.5	755.8	718.6	700.0	687.2	679.4	662.7	645.1	637.2
60°	534.3	519.6	499.0	480.4	463.7	459.8	444.1	426.4	422.5
62.5°	322.5	318.6	282.3	275.5	262.7	256.8	246.1	234.3	235.3
65°	174.5	149.0	136.3	128.4	125.5	109.8	101.0	99.0	103.9
67.5°	47.1	47.1	38.2	36.3	36.3	26.5	30.4	29.4	38.2
70°	41.2	29.4	25.5	20.6	23.5	13.7	25.5	20.6	19.6
72.5°	21.6	11.8	9.8	9.8	10.8	6.9	15.7	8.8	6.9
75°	8.8	5.9	3.9	2.0	4.9	4.9	5.9	2.0	5.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	2.9	2.0	0.0	0.0	0.0	5.9	0.0	0.0
87.5°	0.0	2.0	1.0	0.0	0.0	0.0	2.0	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)