

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: P247936

Luminaire Tested: **LD8B200D010 ER8B200940 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19283.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

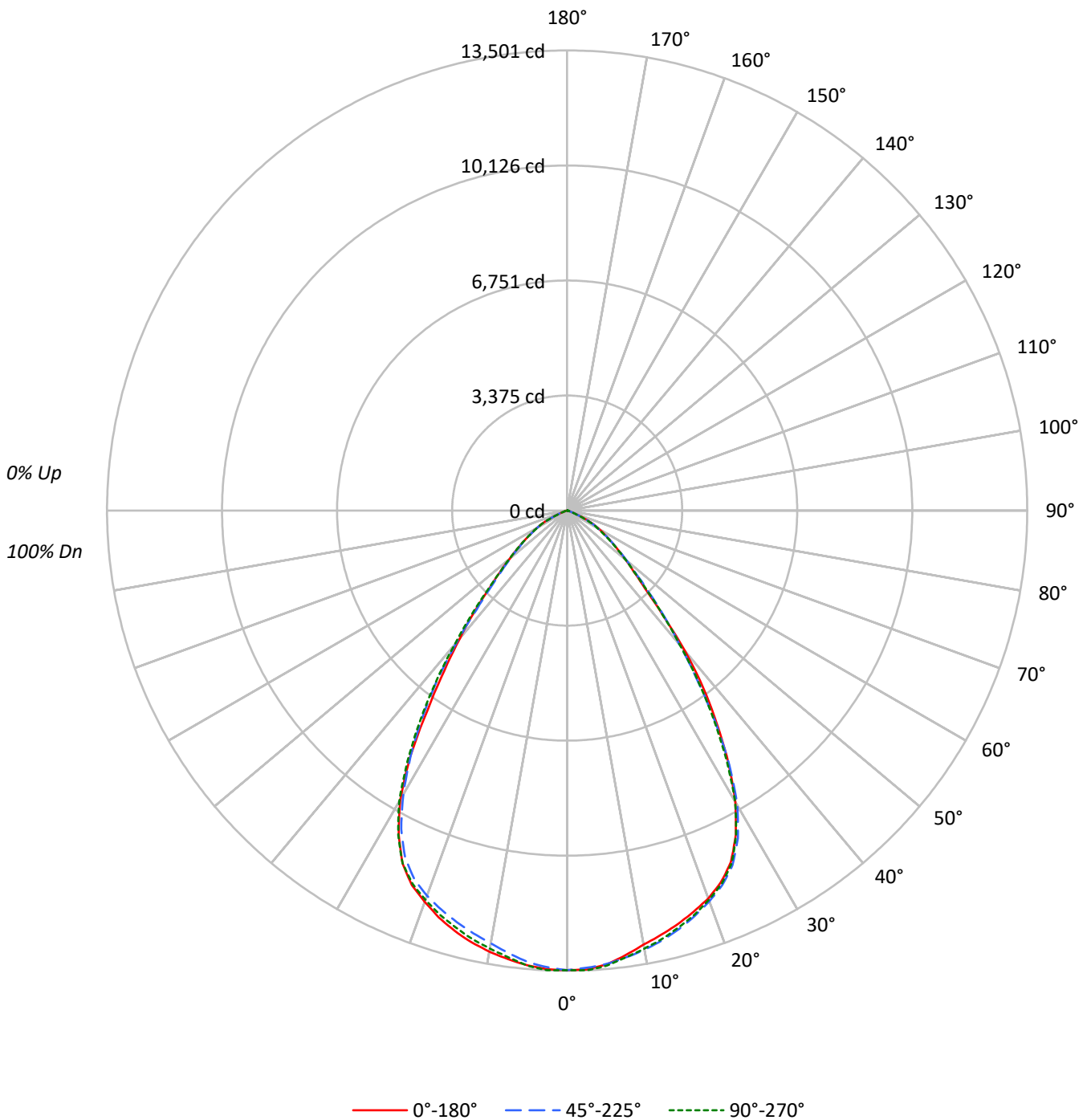
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	415806	415806	415806
5°	413652	414825	414605
10°	404814	408562	411418
15°	400845	404060	407428
20°	397410	398847	400833
25°	386963	388457	388776
30°	351235	350897	348533
35°	289186	282715	268572
40°	216240	206507	197156
45°	140029	143701	140443
50°	107186	106620	106164
55°	83992	82459	81760
60°	66816	63159	64035
65°	43852	38744	39182
70°	15706	14425	14957
75°	5647	6922	5647
80°	3587	5043	4209
85°	849	2512	1663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1263.0	6.5
10°-20°	3560.7	18.5
20°-30°	5162.4	26.8
30°-40°	4640.3	24.1
40°-50°	2614.9	13.6
50°-60°	1393.2	7.2
60°-70°	556.8	2.9
70°-80°	74.1	0.4
80°-90°	17.5	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°	9986.1	51.8
0°-40°	14626.4	75.9
0°-60°	18634.5	96.6
0°-90°	19283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19283.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13484	13484	13484	13484	13484	
5°	13363	13352	13401	13296	13394	###
15°	12556	12702	12657	12500	12762	3543
25°	11373	11480	11417	11240	11426	5162
35°	7682	7572	7510	7406	7134	4766
45°	3211	3385	3295	3140	3220	2638
55°	1562	1567	1534	1498	1521	1424
65°	601	572	531	516	537	595
75°	47	60	58	57	47	70
85°	2	14	7	20	5	7
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°	13484.3	13484.3	13484.3	13484.3	13484.3	13484.3	13484.3	13484.3	13484.3
2.5°	13474.8	13446.3	13425.0	13465.3	13500.9	13403.7	13410.8	13453.5	13467.7
5°	13363.4	13337.3	13351.5	13384.7	13401.3	13279.2	13295.8	13368.1	13394.2
7.5°	13154.8	13174.9	13225.9	13268.5	13218.8	13075.3	13099.0	13223.5	13274.5
10°	12928.4	12975.8	13082.4	13132.2	13048.1	12864.3	12891.6	13058.7	13139.3
12.5°	12748.2	12800.3	12911.8	12949.7	12875.0	12677.1	12705.5	12878.6	12974.6
15°	12556.2	12603.6	12702.0	12732.8	12656.9	12474.4	12500.5	12666.4	12762.4
17.5°	12339.3	12380.7	12468.5	12496.9	12430.5	12237.3	12278.8	12432.9	12517.0
20°	12110.5	12140.1	12201.8	12218.3	12154.3	12008.5	12027.5	12160.3	12214.8
22.5°	11798.7	11836.7	11893.6	11911.3	11852.1	11692.1	11709.8	11840.2	11899.5
25°	11373.2	11428.9	11479.9	11502.4	11417.1	11204.9	11240.5	11351.9	11426.5
27.5°	10713.0	10758.0	10848.1	10850.5	10733.1	10512.7	10542.3	10685.7	10704.7
30°	9864.3	9905.8	9985.2	9967.4	9854.8	9592.8	9616.6	9756.4	9788.4
32.5°	8824.8	8840.2	8861.5	8855.6	8718.1	8594.8	8546.2	8562.8	8574.7
35°	7682.1	7709.4	7571.9	7497.2	7510.2	7520.9	7405.9	7235.2	7134.5
37.5°	6575.0	6444.6	6275.1	6217.0	6324.9	6360.5	6256.2	6001.3	5907.7
40°	5371.9	5255.7	5121.8	5132.5	5130.1	5155.0	5023.4	4929.8	4897.8
42.5°	4134.4	4135.6	4223.3	4162.9	4151.0	3978.0	3927.0	3979.1	4036.0
45°	3211.0	3317.7	3385.3	3367.5	3295.2	3139.9	3139.9	3231.2	3220.5
47.5°	2643.3	2681.2	2732.2	2728.6	2676.5	2562.7	2581.6	2644.5	2676.5
50°	2234.3	2250.9	2274.6	2254.5	2222.5	2151.4	2150.2	2194.0	2213.0
52.5°	1869.3	1878.7	1872.8	1862.1	1844.4	1806.4	1794.6	1831.3	1836.1
55°	1562.3	1580.0	1567.0	1537.4	1533.8	1499.4	1498.3	1527.9	1520.8
57.5°	1301.5	1283.7	1265.9	1241.0	1237.5	1226.8	1238.7	1243.4	1236.3
60°	1083.4	1084.6	1050.2	1026.5	1024.1	1008.7	1025.3	1038.3	1038.3
62.5°	872.4	867.7	846.3	810.8	816.7	810.8	817.9	820.2	809.6
65°	601.0	602.1	572.5	529.8	531.0	526.3	515.6	532.2	537.0
67.5°	320.0	317.7	295.1	279.7	273.8	276.2	288.0	291.6	278.6
70°	174.2	168.3	173.1	156.5	160.0	154.1	160.0	169.5	165.9
72.5°	88.9	94.8	85.3	78.2	87.7	86.5	100.8	92.5	83.0
75°	47.4	51.0	60.5	55.7	58.1	55.7	56.9	53.3	47.4
77.5°	34.4	37.9	43.9	42.7	41.5	39.1	43.9	48.6	39.1
80°	20.2	24.9	27.3	32.0	28.4	32.0	36.7	29.6	23.7
82.5°	13.0	20.2	20.2	21.3	30.8	20.2	33.2	29.6	23.7
85°	2.4	3.6	14.2	8.3	7.1	21.3	20.2	15.4	4.7
87.5°	0.0	8.3	19.0	9.5	15.4	14.2	20.2	21.3	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)