

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: P247918

Luminaire Tested: **LD8B200D010 ER8B200835 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247918
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 ER8B200835 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21650.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

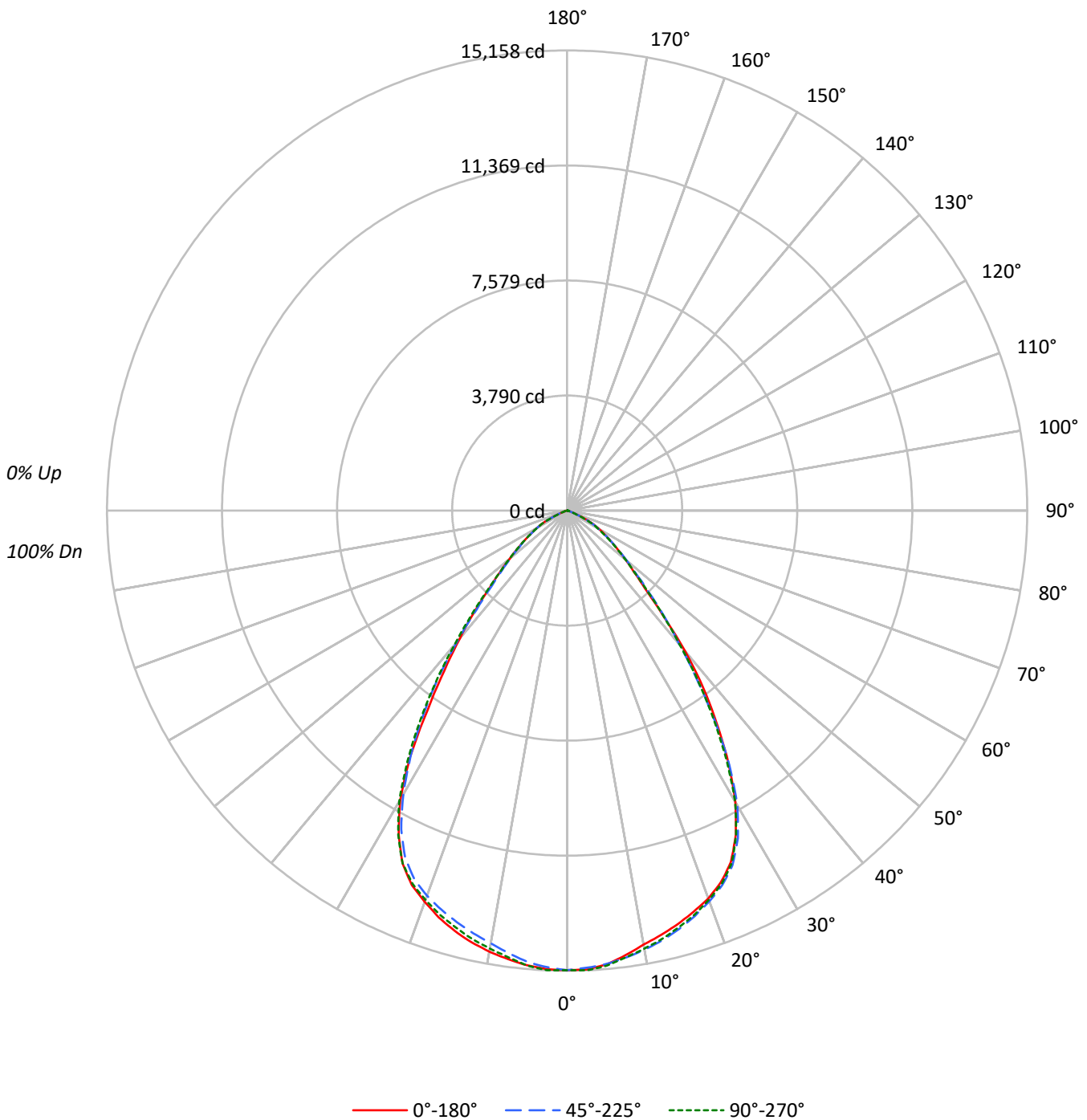
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	466846	466846	466846
5°	464426	465745	465497
10°	454503	458712	461921
15°	450047	453661	457440
20°	446193	447808	450036
25°	434464	436138	436502
30°	394348	393970	391318
35°	324685	317420	301537
40°	242784	231855	221356
45°	157220	161341	157686
50°	120345	119707	119198
55°	94298	92583	91792
60°	75019	70911	71898
65°	49229	43502	43991
70°	17635	16202	16797
75°	6338	7768	6338
80°	4013	5665	4724
85°	955	2830	1875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1418.0	6.5
10°-20°	3997.8	18.5
20°-30°	5796.1	26.8
30°-40°	5209.9	24.1
40°-50°	2935.9	13.6
50°-60°	1564.2	7.2
60°-70°	625.2	2.9
70°-80°	83.2	0.4
80°-90°	19.6	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°	11211.9	51.8
0°-40°	16421.8	75.9
0°-60°	20921.9	96.6
0°-90°	21650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21650.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15140	15140	15140	15140	15140	
5°	15004	14990	15046	14928	15038	###
15°	14097	14261	14211	14035	14329	3978
25°	12769	12889	12818	12620	12829	5796
35°	8625	8501	8432	8315	8010	5351
45°	3605	3801	3700	3525	3616	2961
55°	1754	1759	1722	1682	1707	1599
65°	675	643	596	579	603	668
75°	53	68	65	64	53	79
85°	3	16	8	23	5	8
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°	15139.5	15139.5	15139.5	15139.5	15139.5	15139.5	15139.5	15139.5	15139.5
2.5°	15128.8	15096.9	15072.9	15118.2	15158.1	15049.0	15057.0	15104.9	15120.8
5°	15003.7	14974.5	14990.4	15027.7	15046.3	14909.2	14927.9	15009.1	15038.3
7.5°	14769.5	14792.1	14849.4	14897.3	14841.4	14680.3	14707.0	14846.7	14903.9
10°	14515.3	14568.6	14688.3	14744.2	14649.7	14443.5	14474.1	14661.7	14752.2
12.5°	14313.0	14371.6	14496.7	14539.3	14455.4	14233.2	14265.1	14459.4	14567.2
15°	14097.4	14150.7	14261.1	14295.7	14210.6	14005.6	14034.9	14221.2	14329.0
17.5°	13853.9	13900.5	13999.0	14030.9	13956.4	13739.4	13786.0	13959.0	14053.5
20°	13597.1	13630.3	13699.5	13718.2	13646.3	13482.6	13503.9	13652.9	13714.2
22.5°	13247.0	13289.6	13353.5	13373.5	13306.9	13127.3	13147.2	13293.6	13360.2
25°	12769.3	12831.8	12889.1	12914.3	12818.5	12580.3	12620.2	12745.3	12829.2
27.5°	12028.0	12078.6	12179.7	12182.4	12050.6	11803.1	11836.4	11997.4	12018.7
30°	11075.1	11121.7	11210.9	11190.9	11064.5	10770.4	10797.0	10954.0	10990.0
32.5°	9908.0	9925.3	9949.3	9942.6	9788.2	9649.8	9595.3	9613.9	9627.2
35°	8625.1	8655.7	8501.3	8417.5	8432.1	8444.1	8315.0	8123.4	8010.2
37.5°	7382.1	7235.7	7045.4	6980.2	7101.3	7141.2	7024.1	6738.0	6632.8
40°	6031.3	5900.9	5750.5	5762.5	5759.8	5787.8	5640.0	5534.9	5499.0
42.5°	4641.9	4643.3	4741.7	4673.9	4660.6	4466.3	4409.0	4467.6	4531.5
45°	3605.2	3725.0	3800.8	3780.9	3699.7	3525.4	3525.4	3627.8	3615.9
47.5°	2967.7	3010.3	3067.6	3063.6	3005.0	2877.2	2898.5	2969.1	3005.0
50°	2508.6	2527.2	2553.9	2531.2	2495.3	2415.4	2414.1	2463.4	2484.7
52.5°	2098.7	2109.4	2102.7	2090.7	2070.8	2028.2	2014.9	2056.1	2061.4
55°	1754.0	1774.0	1759.4	1726.1	1722.1	1683.5	1682.2	1715.4	1707.4
57.5°	1461.2	1441.3	1421.3	1393.4	1389.4	1377.4	1390.7	1396.0	1388.1
60°	1216.4	1217.7	1179.1	1152.5	1149.8	1132.5	1151.2	1165.8	1165.8
62.5°	979.5	974.2	950.2	910.3	916.9	910.3	918.3	920.9	909.0
65°	674.7	676.1	642.8	594.9	596.2	590.9	578.9	597.5	602.9
67.5°	359.3	356.7	331.4	314.1	307.4	310.1	323.4	327.4	312.7
70°	195.6	189.0	194.3	175.7	179.7	173.0	179.7	190.3	186.3
72.5°	99.8	106.5	95.8	87.8	98.5	97.2	113.1	103.8	93.2
75°	53.2	57.2	67.9	62.5	65.2	62.5	63.9	59.9	53.2
77.5°	38.6	42.6	49.2	47.9	46.6	43.9	49.2	54.6	43.9
80°	22.6	27.9	30.6	35.9	31.9	35.9	41.3	33.3	26.6
82.5°	14.6	22.6	22.6	24.0	34.6	22.6	37.3	33.3	26.6
85°	2.7	4.0	16.0	9.3	8.0	24.0	22.6	17.3	5.3
87.5°	0.0	9.3	21.3	10.6	17.3	16.0	22.6	24.0	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)