

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: P247933

Luminaire Tested: **LD8B200D010 ER8B200935 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247933
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 ER8B200935 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18463.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

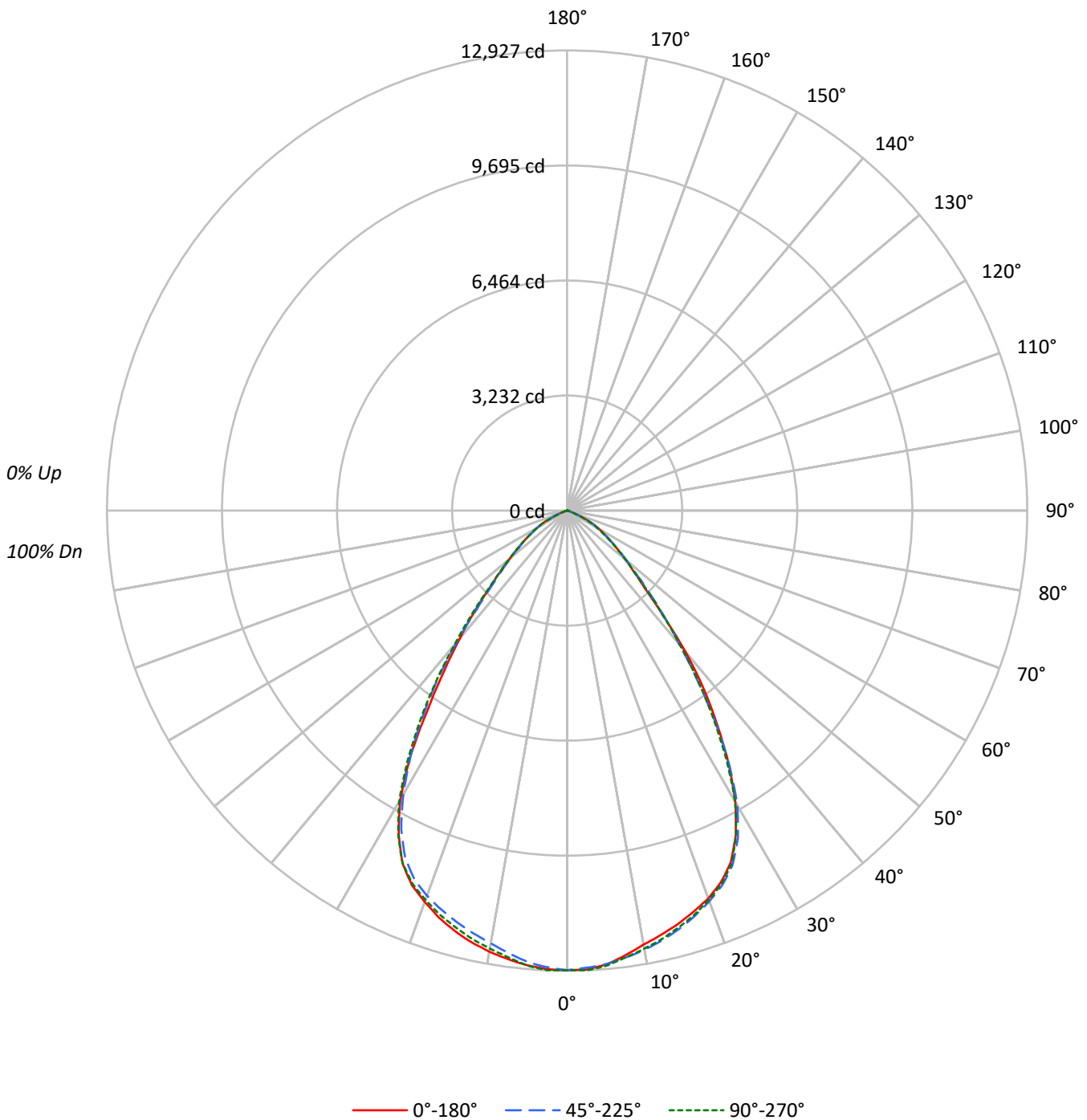
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247933

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P247933

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBW0H

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°	398125	398125	398125
5°	396061	397184	396974
10°	387599	391187	393924
15°	383798	386879	390103
20°	380510	381888	383788
25°	370509	371938	372244
30°	336298	335974	333713
35°	276888	270696	257151
40°	207046	197723	188771
45°	134076	137591	134473
50°	102628	102086	101650
55°	80416	78954	78282
60°	63973	60476	61315
65°	41984	37095	37511
70°	15039	13812	14326
75°	5409	6624	5409
80°	3427	4830	4031
85°	814	2406	1592



TEST NUMBER: P247933

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1209.3	6.5
10°-20°	3409.3	18.5
20°-30°	4942.9	26.8
30°-40°	4443.0	24.1
40°-50°	2503.7	13.6
50°-60°	1334.0	7.2
60°-70°	533.2	2.9
70°-80°	71.0	0.4
80°-90°	16.7	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°	9561.5	51.8
0°-40°	14004.5	75.9
0°-60°	17842.1	96.6
0°-90°	18463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18463.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12911	12911	12911	12911	12911	
5°	12795	12784	12831	12730	12825	###
15°	12022	12162	12119	11969	12220	3392
25°	10890	10992	10932	10762	10941	4943
35°	7355	7250	7191	7091	6831	4564
45°	3074	3241	3155	3006	3084	2525
55°	1496	1500	1469	1434	1456	1363
65°	575	548	508	494	514	570
75°	45	58	56	54	45	67
85°	2	14	7	19	4	7
90°	0	0	0	0	0	



TEST NUMBER: P247933

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBW0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12910.9	12910.9	12910.9	12910.9	12910.9	12910.9	12910.9	12910.9	12910.9
2.5°	12901.8	12874.5	12854.1	12892.7	12926.8	12833.7	12840.5	12881.4	12895.0
5°	12795.1	12770.1	12783.8	12815.5	12831.4	12714.5	12730.4	12799.6	12824.6
7.5°	12595.4	12614.6	12663.5	12704.3	12656.6	12519.3	12542.0	12661.2	12710.0
10°	12378.6	12424.0	12526.1	12573.8	12493.2	12317.3	12343.4	12503.4	12580.6
12.5°	12206.1	12256.0	12362.7	12399.0	12327.5	12138.0	12165.2	12330.9	12422.8
15°	12022.2	12067.6	12161.8	12191.3	12118.7	11943.9	11968.9	12127.8	12219.7
17.5°	11814.5	11854.3	11938.2	11965.5	11901.9	11716.9	11756.6	11904.2	11984.8
20°	11595.5	11623.9	11682.9	11698.8	11637.5	11497.9	11516.0	11643.2	11695.4
22.5°	11297.0	11333.3	11387.8	11404.8	11348.1	11194.9	11211.9	11336.7	11393.5
25°	10889.6	10942.9	10991.7	11013.3	10931.6	10728.4	10762.5	10869.1	10940.6
27.5°	10257.4	10300.5	10386.8	10389.1	10276.7	10065.6	10094.0	10231.3	10249.5
30°	9444.8	9484.5	9560.6	9543.6	9435.7	9184.9	9207.6	9341.5	9372.2
32.5°	8449.5	8464.2	8484.7	8479.0	8347.3	8229.3	8182.8	8198.7	8210.0
35°	7355.4	7381.5	7249.9	7178.4	7190.9	7201.1	7091.0	6927.6	6831.1
37.5°	6295.4	6170.6	6008.3	5952.7	6055.9	6090.0	5990.1	5746.1	5656.4
40°	5143.5	5032.2	4904.0	4914.2	4911.9	4935.8	4809.8	4720.1	4689.5
42.5°	3958.6	3959.7	4043.7	3985.8	3974.5	3808.8	3760.0	3809.9	3864.4
45°	3074.5	3176.6	3241.3	3224.3	3155.1	3006.4	3006.4	3093.8	3083.6
47.5°	2530.9	2567.2	2616.0	2612.6	2562.7	2453.7	2471.9	2532.0	2562.7
50°	2139.3	2155.2	2177.9	2158.6	2128.0	2059.9	2058.7	2100.7	2118.9
52.5°	1789.8	1798.9	1793.2	1783.0	1765.9	1729.6	1718.3	1753.5	1758.0
55°	1495.8	1512.8	1500.4	1472.0	1468.6	1435.7	1434.5	1462.9	1456.1
57.5°	1246.1	1229.1	1212.1	1188.3	1184.9	1174.6	1186.0	1190.5	1183.7
60°	1037.3	1038.5	1005.5	982.8	980.6	965.8	981.7	994.2	994.2
62.5°	835.3	830.8	810.3	776.3	782.0	776.3	783.1	785.4	775.2
65°	575.4	576.5	548.2	507.3	508.4	503.9	493.7	509.6	514.1
67.5°	306.4	304.2	282.6	267.8	262.2	264.4	275.8	279.2	266.7
70°	166.8	161.2	165.7	149.8	153.2	147.5	153.2	162.3	158.9
72.5°	85.1	90.8	81.7	74.9	84.0	82.8	96.5	88.5	79.4
75°	45.4	48.8	57.9	53.3	55.6	53.3	54.5	51.1	45.4
77.5°	32.9	36.3	42.0	40.9	39.7	37.5	42.0	46.5	37.5
80°	19.3	23.8	26.1	30.6	27.2	30.6	35.2	28.4	22.7
82.5°	12.5	19.3	19.3	20.4	29.5	19.3	31.8	28.4	22.7
85°	2.3	3.4	13.6	7.9	6.8	20.4	19.3	14.8	4.5
87.5°	0.0	7.9	18.2	9.1	14.8	13.6	19.3	20.4	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)