

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: P248137

Luminaire Tested: **LD8B200D010 ER8B200840 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200840 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23891.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

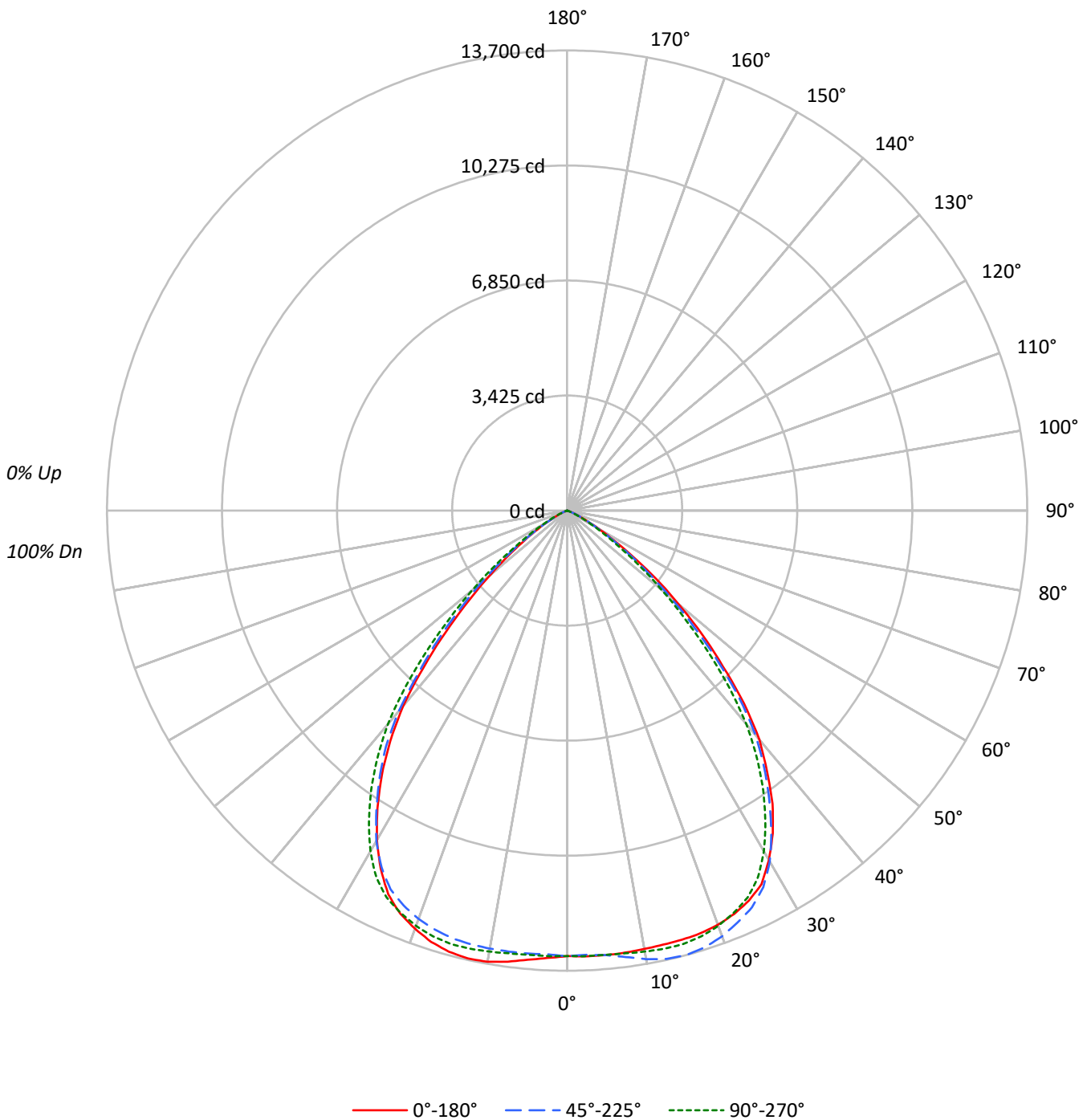
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248137

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBS0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248137

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBS0WH

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	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	408994	408994	408994
5°	411170	410885	415426
10°	414972	417455	427018
15°	422241	426461	433973
20°	430642	431771	434721
25°	435890	432606	428826
30°	427683	417232	403203
35°	401242	383376	362423
40°	358437	334168	305962
45°	285858	257320	223013
50°	207084	176765	143976
55°	128436	104485	82594
60°	66045	51941	41506
65°	28172	21123	16206
70°	8944	4409	2858
75°	2359	1418	1418
80°	1882	1172	941
85°	1415	460	460



TEST NUMBER: P248137

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBS0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1271.7	5.3
10°-20°	3785.1	15.8
20°-30°	5818.1	24.4
30°-40°	6289.2	26.3
40°-50°	4525.7	18.9
50°-60°	1826.2	7.6
60°-70°	351.1	1.5
70°-80°	20.9	0.1
80°-90°	2.9	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°	10874.9	45.5
0°-40°	17164.2	71.8
0°-60°	23516.0	98.4
0°-90°	23891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23891.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13263	13263	13263	13263	13263	
5°	13283	13287	13274	13236	13421	###
15°	13226	13700	13359	13183	13594	3743
25°	12811	13031	12715	12441	12604	5878
35°	10659	10490	10184	9744	9628	6600
45°	6555	6361	5901	5417	5114	5063
55°	2389	2209	1944	1679	1536	2227
65°	386	394	290	226	222	452
75°	20	16	12	12	12	33
85°	4	3	1	1	1	5
90°	0	0	0	0	0	



TEST NUMBER: P248137

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBS0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13263.4	13263.4	13263.4	13263.4	13263.4	13263.4	13263.4	13263.4	13263.4
2.5°	13283.2	13264.7	13238.3	13236.9	13279.2	13255.4	13226.4	13256.8	13332.1
5°	13283.2	13285.9	13287.2	13275.3	13274.0	13234.3	13235.6	13317.6	13420.7
7.5°	13274.0	13325.5	13406.2	13387.7	13295.1	13207.9	13243.5	13408.8	13546.3
10°	13252.8	13373.1	13558.2	13530.4	13332.1	13184.1	13240.9	13471.0	13637.5
12.5°	13234.3	13399.6	13673.2	13640.2	13362.5	13168.2	13225.0	13478.9	13658.7
15°	13226.4	13404.8	13699.7	13658.7	13358.6	13136.5	13182.7	13420.7	13593.9
17.5°	13197.3	13363.9	13633.6	13583.3	13289.8	13062.4	13082.3	13299.1	13463.0
20°	13123.2	13266.0	13486.8	13418.1	13157.6	12928.9	12935.5	13099.4	13247.5
22.5°	12997.6	13110.0	13270.0	13203.9	12960.6	12753.0	12725.3	12862.8	12987.1
25°	12811.2	12902.4	13030.7	12959.3	12714.7	12503.2	12441.0	12528.3	12603.6
27.5°	12537.5	12569.3	12642.0	12532.3	12306.2	12098.6	11969.0	11982.3	12021.9
30°	12011.3	12062.9	12069.5	11943.9	11717.8	11477.2	11358.2	11292.1	11323.8
32.5°	11392.6	11378.1	11311.9	11159.9	10982.7	10791.0	10566.3	10490.9	10508.1
35°	10658.8	10624.5	10489.6	10344.2	10184.2	9948.9	9743.9	9632.9	9627.6
37.5°	9765.1	9718.8	9630.2	9429.3	9282.5	9084.2	8860.8	8737.8	8645.3
40°	8904.4	8831.7	8727.2	8486.6	8301.5	8025.2	7796.5	7625.9	7600.8
42.5°	7793.8	7758.1	7608.7	7366.8	7135.4	6808.9	6543.1	6400.3	6326.3
45°	6555.0	6555.0	6360.7	6147.8	5900.6	5657.3	5416.7	5203.8	5113.9
47.5°	5445.8	5308.3	5124.5	4897.1	4716.0	4544.1	4288.9	4027.1	3966.3
50°	4316.7	4229.4	4012.6	3795.8	3684.7	3520.8	3319.8	3066.0	3001.2
52.5°	3335.7	3198.2	3010.4	2849.1	2744.7	2616.5	2398.3	2225.1	2192.1
55°	2389.0	2319.0	2209.2	2077.0	1943.5	1808.6	1679.1	1579.9	1536.3
57.5°	1636.8	1613.0	1521.7	1443.7	1314.2	1195.2	1076.2	1044.5	1047.1
60°	1070.9	1069.6	1024.6	954.6	842.2	733.8	678.2	662.4	673.0
62.5°	647.8	659.7	647.8	606.8	520.9	437.6	398.0	405.9	399.3
65°	386.1	398.0	394.0	341.1	289.5	253.8	226.1	215.5	222.1
67.5°	224.8	218.1	201.0	175.8	144.1	119.0	100.5	91.2	92.5
70°	99.2	93.9	84.6	64.8	48.9	39.7	33.1	30.4	31.7
72.5°	37.0	35.7	30.4	25.1	21.2	17.2	15.9	15.9	15.9
75°	19.8	18.5	15.9	13.2	11.9	11.9	11.9	11.9	11.9
77.5°	14.5	13.2	11.9	10.6	9.3	7.9	7.9	7.9	7.9
80°	10.6	9.3	7.9	6.6	6.6	5.3	5.3	5.3	5.3
82.5°	6.6	6.6	5.3	4.0	4.0	2.6	2.6	2.6	2.6
85°	4.0	4.0	2.6	2.6	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)