

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: P250182

Luminaire Tested: **LD8B200D010 ER8B200940 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19171.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

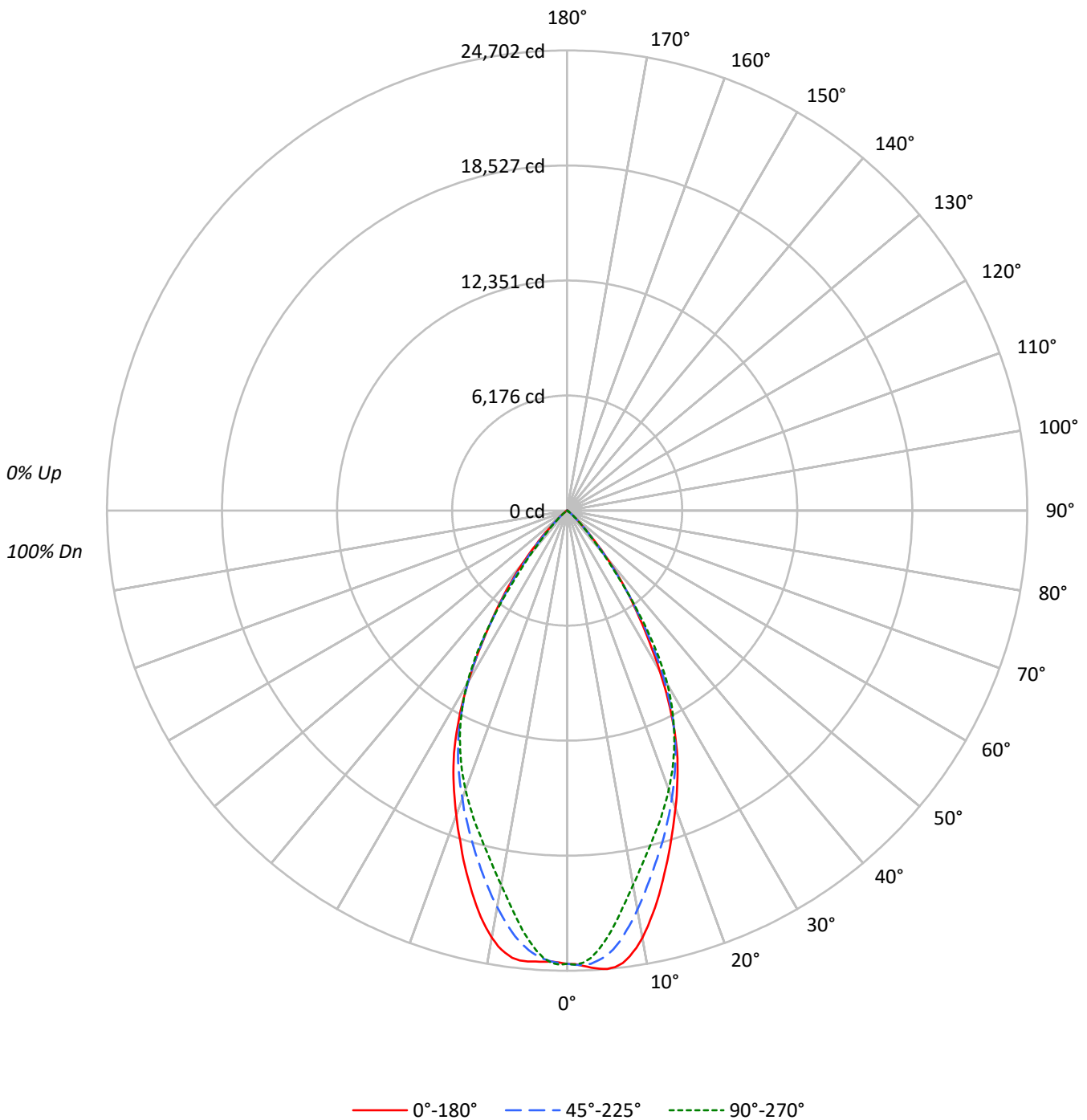
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250182

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBM0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250182

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBM0WH

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
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66				66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55				55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52				52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	750238	750238	750238
5°	764641	718315	752185
10°	729028	639012	728840
15°	643759	576345	654709
20°	557880	523132	571078
25°	471360	463310	488664
30°	354273	383548	378492
35°	237155	250737	257193
40°	132866	114056	152393
45°	53399	46950	63460
50°	18441	17879	21852
55°	5091	6048	5726
60°	2917	3651	3287
65°	2590	2152	1722
70°	0	1605	1073
75°	0	0	0
80°	0	0	1048
85°	0	0	0



TEST NUMBER: P250182

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBM0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2208.7	11.5
10°-20°	5342.0	27.9
20°-30°	6261.1	32.7
30°-40°	4119.4	21.5
40°-50°	1075.0	5.6
50°-60°	132.2	0.7
60°-70°	27.4	0.1
70°-80°	5.1	0.0
80°-90°	0.1	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°	13811.7	72.0
0°-40°	17931.1	93.5
0°-60°	19138.3	99.8
0°-90°	19171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19171.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24330	24330	24330	24330	24330	
5°	24702	23998	23206	23685	24300	###
15°	20165	19024	18054	19024	20508	5621
25°	13854	13718	13617	13848	14362	6245
35°	6300	6442	6661	6726	6832	3945
45°	1224	1153	1077	1248	1455	1098
55°	95	101	112	112	106	125
65°	36	30	30	24	24	25
75°	0	6	0	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P250182

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBM0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	24329.7	24329.7	24329.7	24329.7	24329.7	24329.7	24329.7	24329.7	24329.7
1°	24347.4	24383.0	24394.7	24430.3	24377.0	24341.6	24294.2	24258.6	24264.6
2°	24453.9	24471.7	24406.6	24383.0	24288.3	24258.6	24223.2	24217.3	24223.2
3°	24566.4	24530.8	24359.2	24199.6	24057.6	24039.8	24104.9	24199.6	24252.7
4°	24655.1	24560.4	24199.6	23903.7	23679.0	23661.3	23921.5	24164.0	24264.6
5°	24702.4	24530.8	23998.4	23501.5	23205.8	23318.1	23684.9	24116.7	24300.0
6°	24637.3	24383.0	23690.8	23028.4	22691.1	22839.1	23377.3	24004.3	24276.4
7°	24471.7	24146.3	23294.5	22513.7	22099.6	22330.3	23016.5	23815.0	24187.7
8°	24164.0	23773.6	22791.7	21916.2	21508.0	21768.3	22572.9	23542.9	23974.8
9°	23761.8	23330.0	22294.8	21372.0	20934.3	21241.9	22111.5	23182.1	23679.0
10°	23282.7	22821.3	21744.7	20804.2	20407.9	20697.7	21614.6	22762.1	23276.7
11°	22720.7	22277.0	21194.5	20271.8	19893.2	20177.2	21117.7	22259.4	22815.3
12°	22111.5	21703.3	20632.7	19757.2	19402.3	19674.4	20585.3	21738.8	22288.9
13°	21502.1	21094.0	20088.5	19260.3	18934.9	19195.1	20064.7	21170.9	21721.0
14°	20845.6	20472.9	19544.2	18787.0	18491.3	18739.6	19532.4	20597.1	21117.7
15°	20165.3	19869.5	19023.6	18331.5	18053.6	18290.1	19023.6	20005.5	20508.3
16°	19526.4	19254.3	18520.8	17881.9	17651.4	17840.5	18509.1	19414.1	19893.2
17°	18875.7	18627.3	18018.0	17438.3	17231.3	17414.7	17982.5	18816.6	19248.4
18°	18225.1	18018.0	17468.0	16971.1	16787.7	16953.3	17462.0	18213.2	18603.6
19°	17621.7	17432.4	16965.2	16545.1	16379.5	16527.3	17006.6	17633.6	18023.9
20°	17000.6	16846.8	16438.6	16095.6	15941.7	16077.8	16450.5	17059.8	17402.8
21°	16403.1	16267.1	15912.2	15622.3	15498.1	15610.6	15953.6	16503.7	16805.4
22°	15782.1	15705.2	15385.8	15143.2	15060.4	15131.3	15444.8	15918.1	16202.1
23°	15172.7	15101.8	14859.2	14658.2	14587.1	14658.2	14936.2	15362.0	15616.5
24°	14557.6	14480.7	14303.3	14173.0	14114.0	14173.0	14409.7	14770.5	15013.1
25°	13853.7	13841.9	13717.7	13646.6	13617.1	13682.1	13847.8	14161.3	14362.3
26°	13179.3	13143.8	13108.3	13096.5	13102.4	13137.9	13273.9	13510.6	13670.3
27°	12351.2	12404.5	12457.6	12528.7	12552.2	12581.9	12646.9	12818.4	12936.8
28°	11558.5	11659.1	11789.2	11931.2	11996.3	11996.3	12002.1	12096.8	12197.3
29°	10771.8	10878.2	11085.3	11298.2	11387.0	11375.1	11327.8	11369.2	11428.4
30°	9949.6	10085.6	10363.7	10641.7	10771.8	10724.5	10635.8	10594.4	10629.8
31°	9145.1	9281.2	9588.7	9890.4	10061.9	10008.8	9854.9	9825.4	9843.0
32°	8376.1	8512.2	8796.0	9115.4	9310.7	9239.8	9080.0	9032.7	9038.6
33°	7630.7	7737.3	7997.5	8293.3	8453.0	8435.2	8305.1	8246.0	8251.8
34°	6926.9	7015.6	7210.7	7435.6	7589.3	7583.4	7488.7	7494.7	7512.5
35°	6299.9	6347.2	6441.7	6566.0	6660.7	6713.8	6725.7	6773.0	6832.2
37.5°	4761.9	4779.5	4667.2	4542.9	4519.3	4673.1	4939.3	5170.0	5258.8
40°	3300.7	3259.4	3117.4	2898.5	2833.4	3005.0	3342.1	3667.5	3785.8
42.5°	2052.7	2034.9	1946.1	1780.6	1721.4	1822.0	2076.3	2324.8	2443.0
45°	1224.5	1200.7	1153.4	1088.4	1076.6	1118.0	1248.1	1390.1	1455.2
47.5°	703.9	698.1	668.4	644.8	638.9	668.4	727.6	810.4	828.2
50°	384.4	378.6	372.7	372.7	372.7	390.4	420.0	443.6	455.5
52.5°	189.3	195.2	189.3	195.2	201.2	212.9	207.0	230.7	230.7
55°	94.7	88.7	100.6	112.5	112.5	112.5	112.5	112.5	106.5
57.5°	70.9	76.9	65.1	70.9	65.1	65.1	59.2	65.1	70.9



TEST NUMBER: P250182

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBM0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	47.3	41.4	47.3	53.3	59.2	53.3	41.4	47.3	53.3
62.5°	23.6	23.6	23.6	35.5	53.3	41.4	35.5	29.5	29.5
65°	35.5	23.6	29.5	35.5	29.5	29.5	23.6	29.5	23.6
67.5°	17.8	29.5	17.8	11.9	17.8	23.6	17.8	11.9	11.9
70°	0.0	5.9	5.9	17.8	17.8	17.8	17.8	11.9	11.9
72.5°	5.9	5.9	5.9	11.9	5.9	11.9	5.9	5.9	11.9
75°	0.0	0.0	5.9	5.9	0.0	5.9	0.0	0.0	0.0
77.5°	5.9	0.0	5.9	5.9	0.0	0.0	0.0	5.9	0.0
80°	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	5.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)