

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: P250133

Luminaire Tested: **LD8B200D010 ER8B200830 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250133
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 ER8B200830 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20699.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

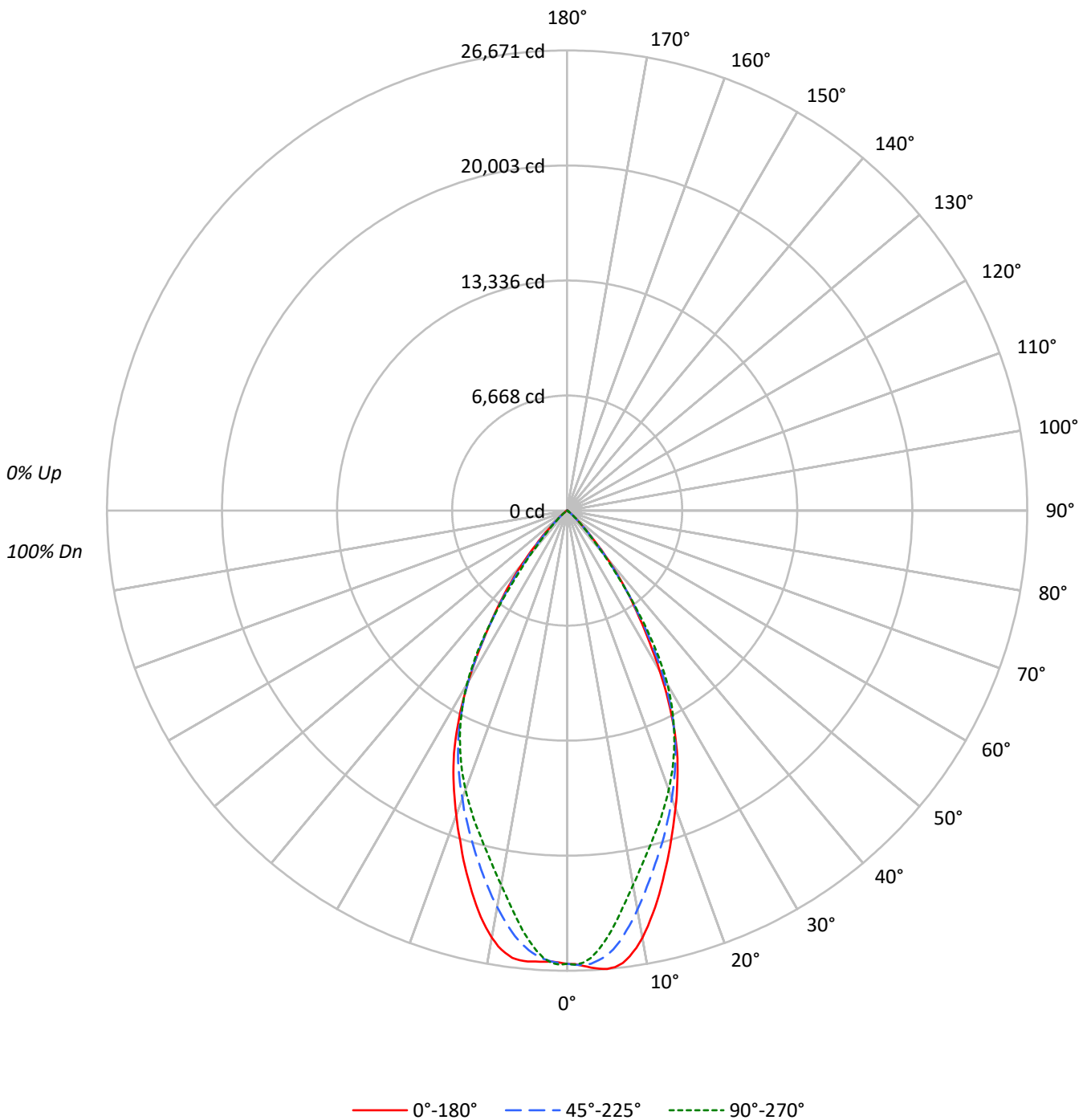
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	810036	810036	810036
5°	825586	775567	812137
10°	787134	689945	786934
15°	695071	622281	706892
20°	602345	564827	616597
25°	508929	500236	527615
30°	382509	414120	408662
35°	256056	270722	277694
40°	143457	123145	164538
45°	57656	50691	68519
50°	19914	19304	23593
55°	5494	6527	6183
60°	3151	3941	3546
65°	2795	2328	1861
70°	0	1731	1154
75°	0	0	0
80°	0	0	1137
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2384.7	11.5
10°-20°	5767.7	27.9
20°-30°	6760.1	32.7
30°-40°	4447.8	21.5
40°-50°	1160.7	5.6
50°-60°	142.8	0.7
60°-70°	29.6	0.1
70°-80°	5.5	0.0
80°-90°	0.2	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°	14912.5	72.0
0°-40°	19360.3	93.5
0°-60°	20663.7	99.8
0°-90°	20699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20699.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26269	26269	26269	26269	26269	
5°	26671	25911	25055	25573	26237	###
15°	21773	20540	19492	20540	22143	6069
25°	14958	14811	14702	14952	15507	6743
35°	6802	6955	7192	7262	7377	4259
45°	1322	1245	1162	1348	1571	1185
55°	102	109	121	121	115	135
65°	38	32	32	26	26	27
75°	0	6	0	0	0	3
85°	0	0	0	0	0	0
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°	26268.9	26268.9	26268.9	26268.9	26268.9	26268.9	26268.9	26268.9	26268.9
1°	26287.9	26326.4	26339.0	26377.5	26320.0	26281.7	26230.6	26192.2	26198.6
2°	26403.0	26422.2	26351.9	26326.4	26224.2	26192.2	26153.9	26147.5	26153.9
3°	26524.4	26485.9	26300.8	26128.4	25975.1	25955.9	26026.2	26128.4	26185.7
4°	26620.2	26518.0	26128.4	25809.0	25566.3	25547.2	25828.2	26089.9	26198.6
5°	26671.3	26485.9	25911.2	25374.7	25055.4	25176.7	25572.7	26038.8	26236.8
6°	26601.0	26326.4	25579.1	24863.8	24499.7	24659.4	25240.6	25917.6	26211.4
7°	26422.2	26070.9	25151.2	24308.1	23861.0	24110.1	24851.0	25713.2	26115.6
8°	26089.9	25668.5	24608.3	23663.0	23222.3	23503.3	24372.0	25419.4	25885.7
9°	25655.7	25189.5	24071.8	23075.4	22602.8	22934.9	23873.8	25029.8	25566.3
10°	25138.4	24640.2	23477.8	22462.4	22034.5	22347.3	23337.3	24576.3	25132.0
11°	24531.6	24052.6	22883.8	21887.6	21478.8	21785.4	22800.8	24033.5	24633.8
12°	23873.8	23433.1	22277.2	21331.9	20948.7	21242.5	22226.1	23471.4	24065.4
13°	23215.9	22775.2	21689.6	20795.4	20444.1	20725.1	21664.0	22858.4	23452.2
14°	22507.0	22104.6	21102.0	20284.4	19965.1	20233.3	21089.2	22238.7	22800.8
15°	21772.6	21453.1	20539.9	19792.6	19492.5	19747.9	20539.9	21600.0	22142.9
16°	21082.8	20789.0	19997.0	19307.2	19058.2	19262.5	19984.3	20961.5	21478.8
17°	20380.2	20112.0	19454.1	18828.2	18604.7	18802.7	19415.8	20316.4	20782.6
18°	19677.7	19454.1	18860.2	18323.7	18125.7	18304.5	18853.8	19664.9	20086.4
19°	19026.2	18821.8	18317.3	17863.8	17685.1	17844.6	18362.0	19039.0	19460.5
20°	18355.6	18189.5	17748.8	17378.4	17212.3	17359.2	17761.6	18419.5	18789.9
21°	17710.5	17563.6	17180.5	16867.4	16733.4	16854.8	17225.1	17819.1	18144.8
22°	17040.0	16957.0	16612.1	16350.2	16260.8	16337.4	16675.8	17186.9	17493.5
23°	16382.0	16305.5	16043.6	15826.5	15749.8	15826.5	16126.7	16586.5	16861.2
24°	15717.9	15634.9	15443.3	15302.7	15238.9	15302.7	15558.2	15947.8	16209.7
25°	14957.9	14945.1	14811.0	14734.3	14702.4	14772.6	14951.5	15290.0	15507.1
26°	14229.7	14191.4	14153.1	14140.3	14146.7	14185.0	14331.9	14587.4	14759.9
27°	13335.6	13393.1	13450.5	13527.2	13552.7	13584.7	13654.9	13840.1	13967.9
28°	12479.7	12588.3	12728.8	12882.1	12952.5	12952.5	12958.7	13060.9	13169.5
29°	11630.4	11745.2	11968.9	12198.7	12294.5	12281.7	12230.6	12275.3	12339.2
30°	10742.6	10889.5	11189.7	11489.9	11630.4	11579.3	11483.5	11438.8	11477.1
31°	9874.0	10020.9	10353.0	10678.7	10863.9	10806.5	10640.4	10608.5	10627.6
32°	9043.7	9190.6	9497.1	9842.0	10052.8	9976.2	9803.7	9752.6	9759.0
33°	8238.9	8353.9	8634.9	8954.3	9126.7	9107.5	8967.0	8903.2	8909.5
34°	7479.0	7574.8	7785.4	8028.3	8194.2	8187.8	8085.6	8092.0	8111.2
35°	6802.0	6853.1	6955.1	7089.4	7191.6	7248.9	7261.7	7312.8	7376.8
37.5°	5141.4	5160.5	5039.2	4905.0	4879.5	5045.6	5333.0	5582.1	5677.9
40°	3563.8	3519.1	3365.8	3129.5	3059.2	3244.6	3608.5	3959.8	4087.5
42.5°	2216.3	2197.1	2101.3	1922.5	1858.6	1967.2	2241.8	2510.1	2637.7
45°	1322.1	1296.5	1245.4	1175.2	1162.4	1207.1	1347.6	1500.9	1571.2
47.5°	760.0	753.7	721.7	696.2	689.8	721.7	785.6	875.0	894.2
50°	415.1	408.8	402.4	402.4	402.4	421.5	453.5	479.0	491.8
52.5°	204.4	210.8	204.4	210.8	217.2	229.9	223.5	249.1	249.1
55°	102.2	95.8	108.6	121.4	121.4	121.4	121.4	121.4	115.0
57.5°	76.6	83.0	70.3	76.6	70.3	70.3	63.9	70.3	76.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	51.1	44.7	51.1	57.5	63.9	57.5	44.7	51.1	57.5
62.5°	25.5	25.5	25.5	38.3	57.5	44.7	38.3	31.9	31.9
65°	38.3	25.5	31.9	38.3	31.9	31.9	25.5	31.9	25.5
67.5°	19.2	31.9	19.2	12.8	19.2	25.5	19.2	12.8	12.8
70°	0.0	6.4	6.4	19.2	19.2	19.2	19.2	12.8	12.8
72.5°	6.4	6.4	6.4	12.8	6.4	12.8	6.4	6.4	12.8
75°	0.0	0.0	6.4	6.4	0.0	6.4	0.0	0.0	0.0
77.5°	6.4	0.0	6.4	6.4	0.0	0.0	0.0	6.4	0.0
80°	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	6.4
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)