

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: P250140

Luminaire Tested: **LD8B200D010 ER8B200835 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250140
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 ER8B200835 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21524.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

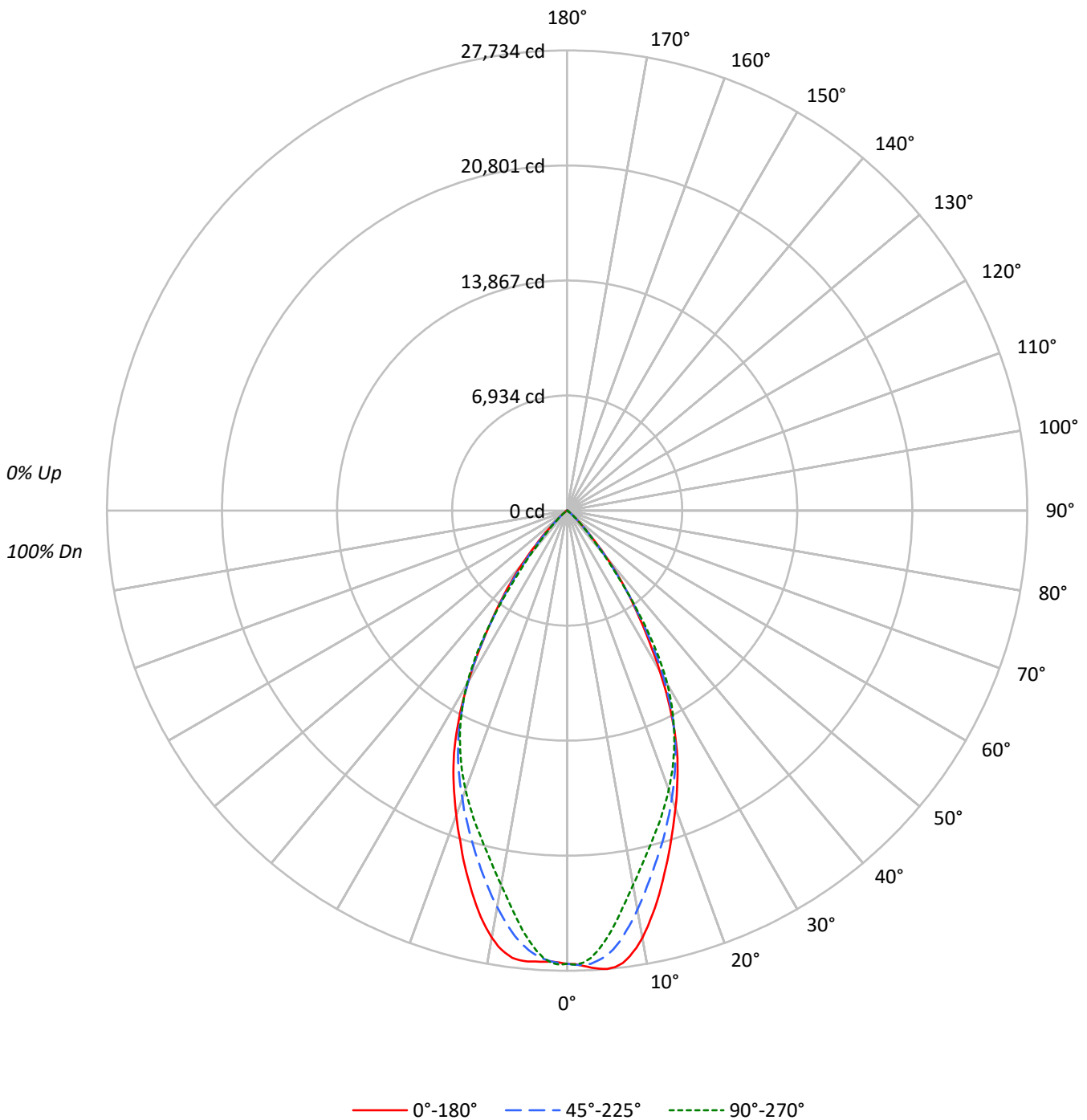
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	842322	842322	842322
5°	858490	806478	844508
10°	818505	717443	818299
15°	722774	647082	735068
20°	626353	587342	641172
25°	529214	520174	548642
30°	397755	430624	424948
35°	266261	281511	288761
40°	149177	128056	171095
45°	59954	52710	71249
50°	20705	20072	24533
55°	5715	6790	6430
60°	3275	4101	3688
65°	2904	2422	1934
70°	0	1803	1199
75°	0	0	0
80°	0	0	1190
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2479.8	11.5
10°-20°	5997.6	27.9
20°-30°	7029.5	32.7
30°-40°	4625.0	21.5
40°-50°	1206.9	5.6
50°-60°	148.4	0.7
60°-70°	30.8	0.1
70°-80°	5.7	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°	15506.9	72.0
0°-40°	20131.9	93.5
0°-60°	21487.3	99.8
0°-90°	21524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21524.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27316	27316	27316	27316	27316	
5°	27734	26944	26054	26592	27283	###
15°	22640	21358	20269	21358	23026	6311
25°	15554	15401	15288	15547	16125	7012
35°	7073	7232	7478	7551	7671	4429
45°	1375	1295	1209	1401	1634	1232
55°	106	113	126	126	120	141
65°	40	33	33	26	26	28
75°	0	7	0	0	0	4
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°	27315.9	27315.9	27315.9	27315.9	27315.9	27315.9	27315.9	27315.9	27315.9
1°	27335.7	27375.7	27388.8	27428.8	27369.0	27329.2	27276.1	27236.1	27242.8
2°	27455.3	27475.3	27402.2	27375.7	27269.4	27236.1	27196.3	27189.6	27196.3
3°	27581.6	27541.6	27349.0	27169.8	27010.4	26990.4	27063.5	27169.8	27229.4
4°	27681.2	27574.9	27169.8	26837.6	26585.3	26565.4	26857.6	27129.8	27242.8
5°	27734.3	27541.6	26943.9	26386.0	26054.0	26180.1	26591.9	27076.7	27282.6
6°	27661.2	27375.7	26598.6	25854.8	25476.2	25642.3	26246.6	26950.6	27256.1
7°	27475.3	27110.0	26153.7	25277.0	24812.0	25071.1	25841.5	26738.0	27156.5
8°	27129.8	26691.5	25589.1	24606.1	24147.9	24440.1	25343.4	26432.5	26917.4
9°	26678.2	26193.5	25031.3	23995.1	23503.7	23849.0	24825.4	26027.4	26585.3
10°	26140.3	25622.3	24413.6	23357.6	22912.7	23238.0	24267.5	25555.8	26133.7
11°	25509.3	25011.3	23795.9	22760.0	22334.8	22653.7	23709.6	24991.4	25615.6
12°	24825.4	24367.1	23165.1	22182.1	21783.6	22089.1	23111.9	24406.9	25024.6
13°	24141.2	23683.0	22554.1	21624.2	21258.9	21551.1	22527.4	23769.4	24386.9
14°	23404.1	22985.7	21943.1	21092.8	20760.8	21039.7	21929.7	23125.1	23709.6
15°	22640.4	22308.2	21358.5	20581.4	20269.4	20535.0	21358.5	22461.0	23025.5
16°	21923.1	21617.6	20794.0	20076.7	19817.8	20030.2	20780.8	21797.0	22334.8
17°	21192.5	20913.6	20229.5	19578.6	19346.3	19552.2	20189.7	21126.2	21610.9
18°	20462.0	20229.5	19611.9	19054.1	18848.2	19034.1	19605.3	20448.7	20887.0
19°	19784.5	19572.0	19047.4	18575.8	18389.9	18555.9	19093.9	19797.9	20236.1
20°	19087.2	18914.5	18456.2	18071.1	17898.4	18051.1	18469.6	19153.7	19538.8
21°	18416.4	18263.7	17865.2	17539.7	17400.3	17526.6	17911.7	18529.4	18868.0
22°	17719.1	17632.8	17274.2	17001.8	16908.9	16988.5	17340.5	17871.9	18190.7
23°	17035.0	16955.4	16683.0	16457.3	16377.5	16457.3	16769.5	17247.5	17533.2
24°	16344.3	16258.1	16058.8	15912.6	15846.3	15912.6	16178.3	16583.4	16855.7
25°	15554.1	15540.8	15401.3	15321.6	15288.4	15361.4	15547.4	15899.4	16125.1
26°	14796.8	14757.0	14717.2	14703.9	14710.6	14750.4	14903.1	15168.8	15348.2
27°	13867.2	13927.0	13986.6	14066.4	14092.9	14126.2	14199.2	14391.7	14524.6
28°	12977.1	13090.1	13236.2	13395.6	13468.7	13468.7	13475.2	13581.5	13694.4
29°	12093.9	12213.4	12445.9	12685.0	12784.6	12771.2	12718.1	12764.6	12831.0
30°	11170.8	11323.5	11635.7	11947.8	12093.9	12040.8	11941.2	11894.7	11934.5
31°	10267.6	10420.3	10765.6	11104.3	11296.9	11237.2	11064.5	11031.3	11051.2
32°	9404.2	9556.9	9875.6	10234.3	10453.5	10373.8	10194.4	10141.3	10148.0
33°	8567.3	8686.9	8979.1	9311.2	9490.5	9470.5	9324.4	9258.1	9264.6
34°	7777.0	7876.7	8095.7	8348.2	8520.8	8514.2	8407.9	8414.5	8434.5
35°	7073.1	7126.2	7232.3	7371.9	7478.2	7537.8	7551.2	7604.3	7670.8
37.5°	5346.3	5366.2	5240.1	5100.5	5074.0	5246.7	5545.6	5804.6	5904.2
40°	3705.9	3659.4	3500.0	3254.3	3181.2	3373.9	3752.3	4117.7	4250.4
42.5°	2304.6	2284.6	2185.0	1999.1	1932.6	2045.6	2331.1	2610.1	2742.9
45°	1374.8	1348.1	1295.0	1222.0	1208.7	1255.2	1401.3	1560.7	1633.8
47.5°	790.3	783.7	750.4	723.9	717.3	750.4	816.9	909.9	929.8
50°	431.6	425.1	418.4	418.4	418.4	438.3	471.6	498.1	511.4
52.5°	212.6	219.2	212.6	219.2	225.9	239.0	232.4	259.0	259.0
55°	106.3	99.6	112.9	126.3	126.3	126.3	126.3	126.3	119.6
57.5°	79.6	86.3	73.1	79.6	73.1	73.1	66.5	73.1	79.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	53.1	46.5	53.1	59.8	66.5	59.8	46.5	53.1	59.8
62.5°	26.5	26.5	26.5	39.8	59.8	46.5	39.8	33.2	33.2
65°	39.8	26.5	33.2	39.8	33.2	33.2	26.5	33.2	26.5
67.5°	20.0	33.2	20.0	13.3	20.0	26.5	20.0	13.3	13.3
70°	0.0	6.7	6.7	20.0	20.0	20.0	20.0	13.3	13.3
72.5°	6.7	6.7	6.7	13.3	6.7	13.3	6.7	6.7	13.3
75°	0.0	0.0	6.7	6.7	0.0	6.7	0.0	0.0	0.0
77.5°	6.7	0.0	6.7	6.7	0.0	0.0	0.0	6.7	0.0
80°	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	6.7
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)