

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: P250154

Luminaire Tested: **LD8B200D010 ER8B200850 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250154
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 ER8B200850 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21802.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

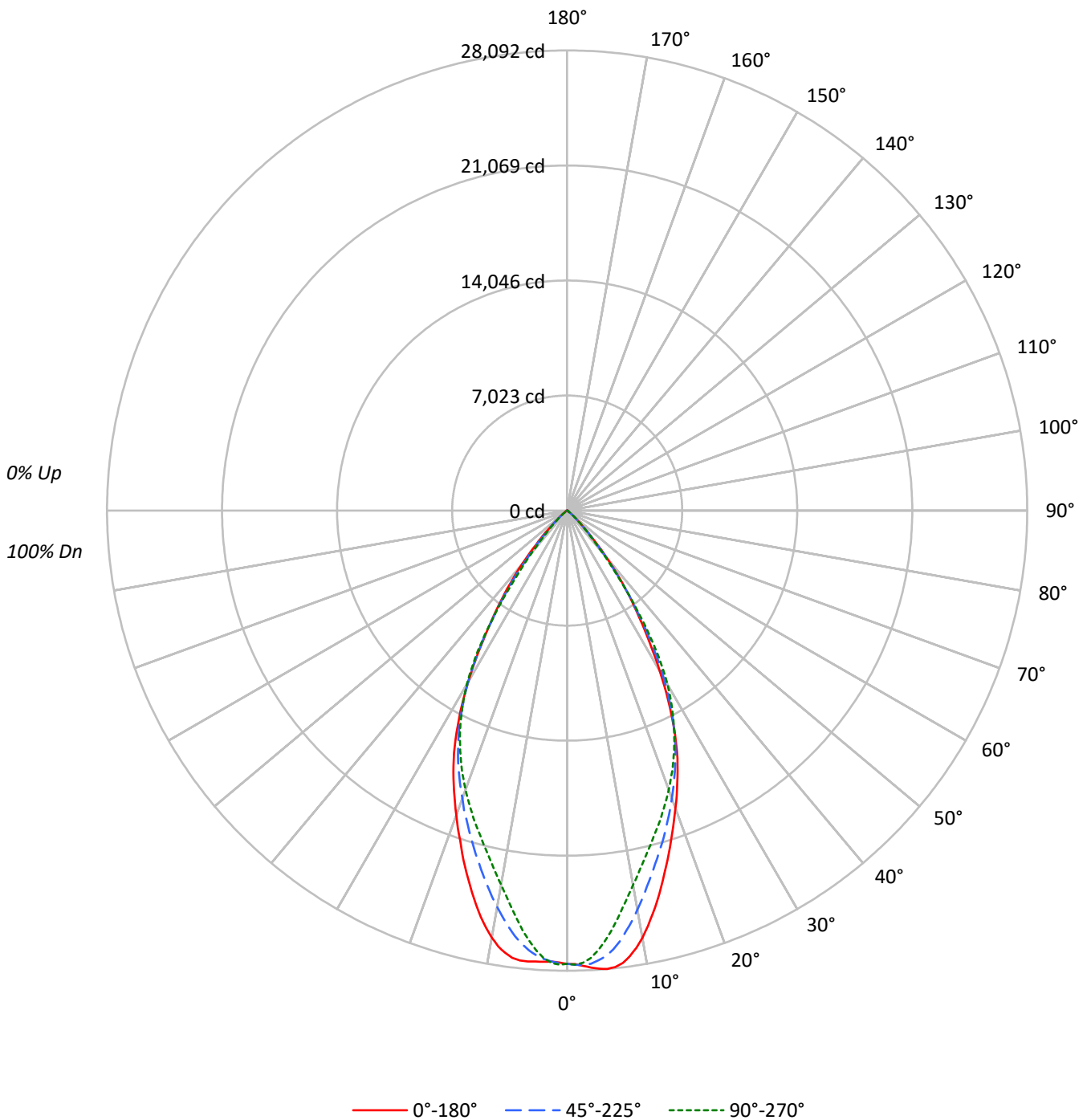
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	853201	853201	853201
5°	869578	816897	855414
10°	829080	726708	828867
15°	732109	655440	744563
20°	634445	594925	649455
25°	536050	526894	555729
30°	402890	436186	430439
35°	269698	285147	292488
40°	151101	129706	173305
45°	60726	53391	72169
50°	20974	20331	24850
55°	5785	6876	6511
60°	3318	4151	3737
65°	2940	2452	1955
70°	0	1821	1217
75°	0	0	0
80°	0	0	1190
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2511.8	11.5
10°-20°	6075.1	27.9
20°-30°	7120.3	32.7
30°-40°	4684.8	21.5
40°-50°	1222.5	5.6
50°-60°	150.4	0.7
60°-70°	31.2	0.1
70°-80°	5.8	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°	15707.2	72.0
0°-40°	20392.0	93.5
0°-60°	21764.8	99.8
0°-90°	21802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21802.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27669	27669	27669	27669	27669	
5°	28092	27292	26391	26935	27635	###
15°	22933	21634	20531	21634	23323	6392
25°	15755	15600	15486	15748	16333	7103
35°	7164	7326	7575	7649	7770	4486
45°	1392	1312	1224	1419	1655	1248
55°	108	114	128	128	121	143
65°	40	34	34	27	27	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°	27668.7	27668.7	27668.7	27668.7	27668.7	27668.7	27668.7	27668.7	27668.7
1°	27688.8	27729.3	27742.6	27783.1	27722.5	27682.2	27628.4	27587.9	27594.6
2°	27809.9	27830.2	27756.1	27729.3	27621.6	27587.9	27547.5	27540.8	27547.5
3°	27937.8	27897.3	27702.3	27520.7	27359.2	27339.0	27413.1	27520.7	27581.1
4°	28038.7	27931.1	27520.7	27184.3	26928.6	26908.6	27204.5	27480.2	27594.6
5°	28092.5	27897.3	27291.9	26726.8	26390.6	26518.3	26935.4	27426.4	27634.9
6°	28018.5	27729.3	26942.1	26188.7	25805.2	25973.5	26585.6	27298.7	27608.1
7°	27830.2	27460.1	26491.5	25603.4	25132.5	25394.9	26175.3	27083.4	27507.2
8°	27480.2	27036.3	25919.6	24924.0	24459.8	24755.7	25670.7	26773.9	27265.1
9°	27022.8	26531.8	25354.5	24305.1	23807.3	24157.1	25146.0	26363.6	26928.6
10°	26478.0	25953.2	24728.9	23659.3	23208.6	23538.2	24580.9	25885.9	26471.2
11°	25838.8	25334.3	24103.3	23053.9	22623.3	22946.3	24015.8	25314.2	25946.5
12°	25146.0	24681.8	23464.3	22468.6	22065.0	22374.4	23410.4	24722.2	25347.8
13°	24453.0	23988.9	22845.4	21903.5	21533.5	21829.4	22818.4	24076.4	24701.9
14°	23706.4	23282.5	22226.5	21365.3	21029.0	21311.4	22213.0	23423.8	24015.8
15°	22932.8	22596.3	21634.4	20847.3	20531.2	20800.2	21634.4	22751.1	23322.9
16°	22206.2	21896.8	21062.6	20336.0	20073.8	20288.9	21049.2	22078.5	22623.3
17°	21466.2	21183.7	20490.7	19831.5	19596.1	19804.7	20450.4	21399.0	21890.0
18°	20726.3	20490.7	19865.3	19300.2	19091.6	19279.9	19858.5	20712.8	21156.7
19°	20040.1	19824.8	19293.4	18815.8	18627.5	18795.5	19340.5	20053.6	20497.5
20°	19333.8	19158.8	18694.6	18304.5	18129.5	18284.3	18708.1	19401.1	19791.2
21°	18654.3	18499.6	18096.0	17766.3	17625.0	17752.9	18143.0	18768.7	19111.7
22°	17948.0	17860.6	17497.3	17221.4	17127.3	17207.9	17564.5	18102.7	18425.6
23°	17255.0	17174.4	16898.5	16669.8	16589.0	16669.8	16986.0	17470.3	17759.7
24°	16555.5	16468.0	16266.2	16118.1	16050.9	16118.1	16387.2	16797.6	17073.5
25°	15755.0	15741.5	15600.3	15519.5	15485.9	15559.8	15748.2	16104.8	16333.4
26°	14988.0	14947.6	14907.3	14893.8	14900.5	14940.9	15095.6	15364.7	15546.4
27°	14046.3	14106.8	14167.3	14248.1	14274.9	14308.6	14382.5	14577.6	14712.2
28°	13144.7	13259.1	13407.1	13568.6	13642.7	13642.7	13649.3	13756.9	13871.3
29°	12250.1	12371.1	12606.7	12848.8	12949.7	12936.2	12882.4	12929.4	12996.8
30°	11315.0	11469.8	11786.0	12102.2	12250.1	12196.3	12095.4	12048.3	12088.7
31°	10400.2	10554.9	10904.7	11247.7	11442.8	11382.4	11207.4	11173.8	11193.9
32°	9525.6	9680.4	10003.2	10366.4	10588.5	10507.8	10326.1	10272.3	10279.0
33°	8678.0	8799.1	9095.1	9431.5	9613.1	9592.8	9444.8	9377.7	9384.3
34°	7877.5	7978.4	8200.3	8456.1	8630.9	8624.1	8516.5	8523.2	8543.5
35°	7164.4	7218.3	7325.8	7467.1	7574.8	7635.2	7648.7	7702.5	7769.8
37.5°	5415.4	5435.5	5307.7	5166.4	5139.5	5314.5	5617.2	5879.6	5980.5
40°	3753.7	3706.7	3545.2	3296.3	3222.2	3417.5	3800.8	4170.8	4305.3
42.5°	2334.4	2314.1	2213.2	2024.9	1957.6	2072.0	2361.2	2643.8	2778.3
45°	1392.5	1365.5	1311.7	1237.8	1224.3	1271.4	1419.4	1580.8	1654.9
47.5°	800.5	793.9	760.1	733.3	726.5	760.1	827.5	921.6	941.8
50°	437.2	430.6	423.8	423.8	423.8	443.9	477.7	504.5	518.0
52.5°	215.3	222.0	215.3	222.0	228.8	242.1	235.4	262.4	262.4
55°	107.6	100.9	114.4	127.9	127.9	127.9	127.9	127.9	121.1
57.5°	80.7	87.4	74.1	80.7	74.1	74.1	67.3	74.1	80.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	53.8	47.1	53.8	60.6	67.3	60.6	47.1	53.8	60.6
62.5°	26.8	26.8	26.8	40.3	60.6	47.1	40.3	33.6	33.6
65°	40.3	26.8	33.6	40.3	33.6	33.6	26.8	33.6	26.8
67.5°	20.2	33.6	20.2	13.5	20.2	26.8	20.2	13.5	13.5
70°	0.0	6.7	6.7	20.2	20.2	20.2	20.2	13.5	13.5
72.5°	6.7	6.7	6.7	13.5	6.7	13.5	6.7	6.7	13.5
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)