

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: P248131

Luminaire Tested: **LD8B200D010 ER8B200830 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248131
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 ER8B200830 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23126.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

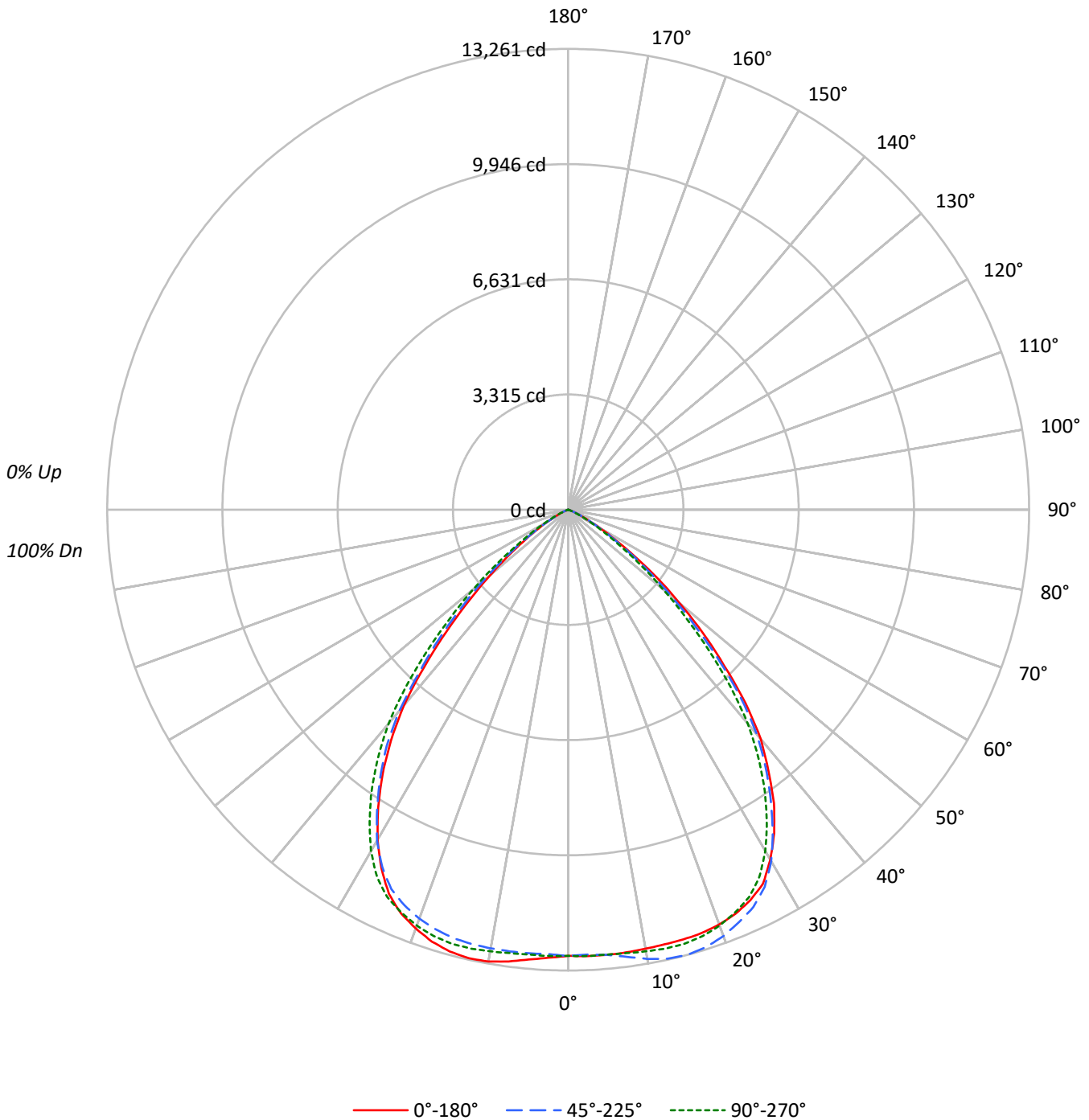
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	395898	395898	395898
5°	398005	397726	402125
10°	401683	404088	413347
15°	408718	412804	420076
20°	416853	417946	420801
25°	421933	418755	415098
30°	413989	403873	390296
35°	388394	371100	350817
40°	346961	323469	296164
45°	276704	249078	215874
50°	200454	171105	139366
55°	124323	101141	79949
60°	63930	50276	40174
65°	27267	20452	15687
70°	8655	4274	2768
75°	2288	1370	1370
80°	1811	1137	906
85°	1344	460	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.0	5.3
10°-20°	3663.9	15.8
20°-30°	5631.8	24.4
30°-40°	6087.9	26.3
40°-50°	4380.8	18.9
50°-60°	1767.7	7.6
60°-70°	339.9	1.5
70°-80°	20.2	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°	10526.7	45.5
0°-40°	16614.5	71.8
0°-60°	22763.0	98.4
0°-90°	23126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23126.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12839	12839	12839	12839	12839	
5°	12858	12862	12849	12812	12991	###
15°	12803	13261	12931	12761	13159	3624
25°	12401	12613	12308	12043	12200	5689
35°	10318	10154	9858	9432	9319	6389
45°	6345	6157	5712	5243	4950	4901
55°	2312	2138	1881	1625	1487	2156
65°	374	381	280	219	215	437
75°	19	15	12	12	12	32
85°	4	3	1	1	1	5
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°	12838.7	12838.7	12838.7	12838.7	12838.7	12838.7	12838.7	12838.7	12838.7
2.5°	12857.9	12840.0	12814.4	12813.1	12854.0	12831.0	12802.8	12832.3	12905.2
5°	12857.9	12860.4	12861.7	12850.2	12848.9	12810.5	12811.8	12891.2	12991.0
7.5°	12848.9	12898.8	12976.9	12959.0	12869.4	12784.9	12819.5	12979.5	13112.6
10°	12828.4	12944.9	13124.1	13097.2	12905.2	12761.9	12816.9	13039.6	13200.9
12.5°	12810.5	12970.5	13235.4	13203.4	12934.7	12746.5	12801.6	13047.3	13221.3
15°	12802.8	12975.6	13261.0	13221.3	12930.8	12715.8	12760.6	12991.0	13158.6
17.5°	12774.7	12935.9	13197.0	13148.4	12864.3	12644.2	12663.4	12873.2	13031.9
20°	12703.0	12841.2	13055.0	12988.4	12736.3	12514.9	12521.3	12680.0	12823.3
22.5°	12581.4	12690.2	12845.1	12781.1	12545.6	12344.7	12317.8	12450.9	12571.2
25°	12401.0	12489.3	12613.4	12544.3	12307.6	12102.8	12042.7	12127.1	12200.1
27.5°	12136.1	12166.8	12237.2	12131.0	11912.1	11711.2	11585.8	11598.6	11637.0
30°	11626.7	11676.6	11683.0	11561.5	11342.6	11109.7	10994.5	10930.5	10961.3
32.5°	11027.8	11013.7	10949.7	10802.6	10631.1	10445.5	10227.9	10155.0	10171.6
35°	10317.5	10284.3	10153.7	10012.9	9858.1	9630.3	9431.9	9324.4	9319.3
37.5°	9452.4	9407.6	9321.9	9127.3	8985.3	8793.3	8577.0	8458.0	8368.4
40°	8619.3	8548.9	8447.8	8214.9	8035.7	7768.2	7546.8	7381.7	7357.4
42.5°	7544.3	7509.7	7365.1	7130.9	6906.9	6590.8	6333.6	6195.4	6123.7
45°	6345.1	6345.1	6157.0	5950.9	5711.6	5476.1	5243.2	5037.2	4950.2
47.5°	5271.4	5138.3	4960.4	4740.3	4564.9	4398.6	4151.6	3898.2	3839.3
50°	4178.5	4094.0	3884.1	3674.2	3566.7	3408.0	3213.5	2967.8	2905.1
52.5°	3228.9	3095.8	2914.0	2757.9	2656.8	2532.7	2321.5	2153.9	2121.9
55°	2312.5	2244.7	2138.5	2010.5	1881.3	1750.7	1625.3	1529.3	1487.1
57.5°	1584.4	1561.3	1473.0	1397.5	1272.1	1156.9	1041.7	1011.0	1013.6
60°	1036.6	1035.3	991.8	924.0	815.2	710.3	656.5	641.2	651.4
62.5°	627.1	638.6	627.1	587.4	504.2	423.6	385.2	392.9	386.5
65°	373.7	385.2	381.4	330.2	280.3	245.7	218.8	208.6	215.0
67.5°	217.6	211.2	194.5	170.2	139.5	115.2	97.3	88.3	89.6
70°	96.0	90.9	81.9	62.7	47.4	38.4	32.0	29.4	30.7
72.5°	35.8	34.6	29.4	24.3	20.5	16.6	15.4	15.4	15.4
75°	19.2	17.9	15.4	12.8	11.5	11.5	11.5	11.5	11.5
77.5°	14.1	12.8	11.5	10.2	9.0	7.7	7.7	7.7	7.7
80°	10.2	9.0	7.7	6.4	6.4	5.1	5.1	5.1	5.1
82.5°	6.4	6.4	5.1	3.8	3.8	2.6	2.6	2.6	2.6
85°	3.8	3.8	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)