

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: P248139

Luminaire Tested: **LD8B175D010 ER8B175850 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248139
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: LD8B175D010 ER8B175850 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20665.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

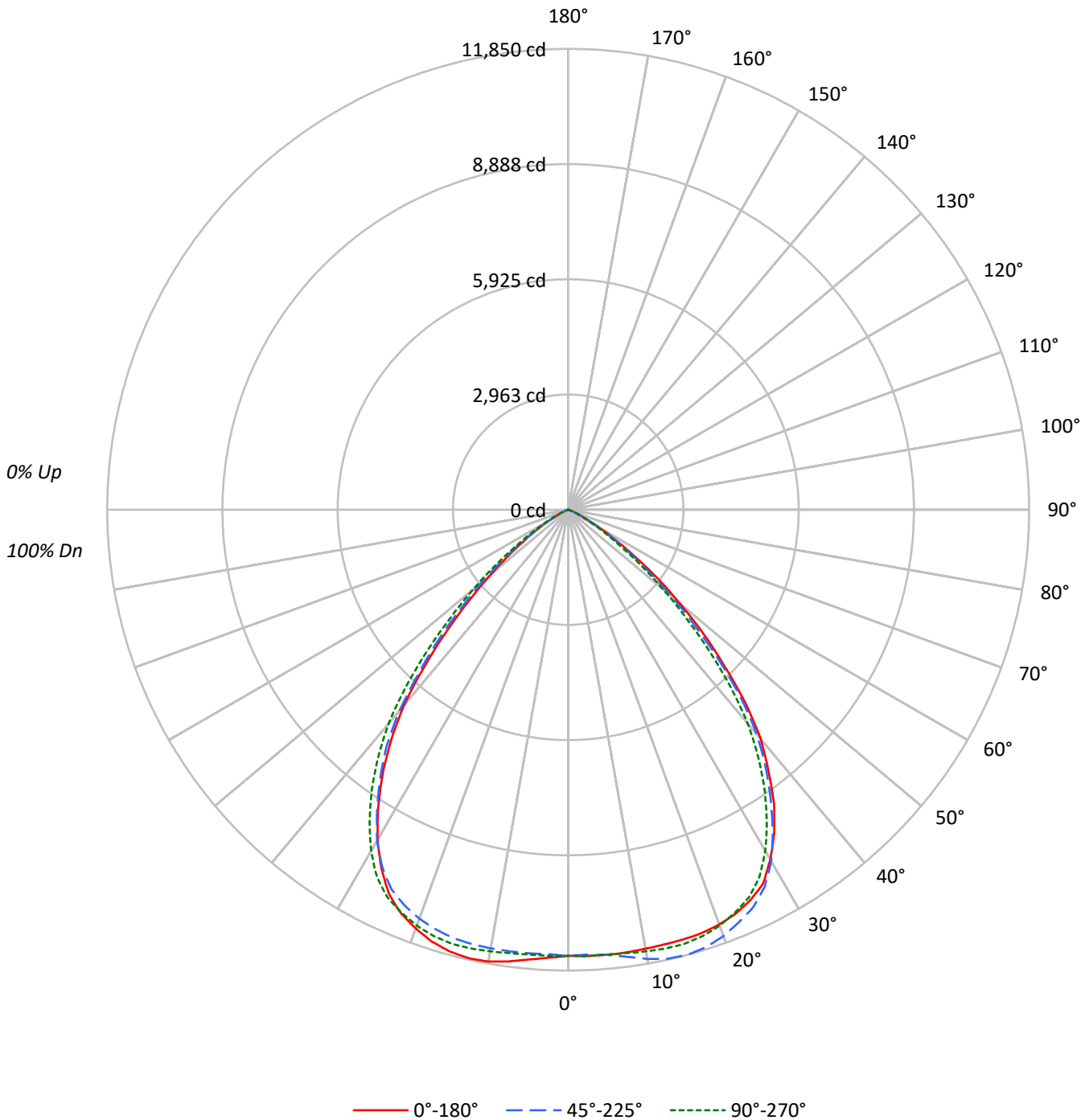
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	353767	353767	353767
5°	355650	355403	359331
10°	358939	361087	369360
15°	365224	368877	375373
20°	372493	373468	376021
25°	377031	374190	370924
30°	369936	360895	348761
35°	347064	331608	313486
40°	310036	289048	264650
45°	247259	222572	192901
50°	179121	152899	124533
55°	111098	90378	71438
60°	57127	44929	35900
65°	24363	18270	14017
70°	7736	3814	2470
75°	2049	1227	1227
80°	1616	1012	817
85°	1203	389	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1100.0	5.3
10°-20°	3274.0	15.8
20°-30°	5032.5	24.4
30°-40°	5440.0	26.3
40°-50°	3914.6	18.9
50°-60°	1579.6	7.6
60°-70°	303.7	1.5
70°-80°	18.1	0.1
80°-90°	2.5	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°	9406.5	45.5
0°-40°	14846.5	71.8
0°-60°	20340.7	98.4
0°-90°	20665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20665.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11472	11472	11472	11472	11472	
5°	11490	11493	11482	11448	11608	###
15°	11440	11850	11555	11403	11758	3238
25°	11081	11271	10998	10761	10902	5084
35°	9220	9073	8809	8428	8328	5709
45°	5670	5502	5104	4685	4423	4380
55°	2066	1911	1681	1452	1329	1926
65°	334	341	250	196	192	391
75°	17	14	10	10	10	29
85°	3	2	1	1	1	4
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°	11472.4	11472.4	11472.4	11472.4	11472.4	11472.4	11472.4	11472.4	11472.4
2.5°	11489.6	11473.6	11450.7	11449.6	11486.1	11465.6	11440.4	11466.7	11531.9
5°	11489.6	11491.9	11493.0	11482.7	11481.6	11447.3	11448.4	11519.3	11608.5
7.5°	11481.6	11526.2	11595.9	11579.9	11499.9	11424.4	11455.3	11598.2	11717.2
10°	11463.3	11567.3	11727.4	11703.4	11531.9	11403.8	11453.0	11652.0	11796.1
12.5°	11447.3	11590.2	11826.9	11798.3	11558.2	11390.1	11439.3	11658.8	11814.4
15°	11440.4	11594.8	11849.8	11814.4	11554.8	11362.6	11402.7	11608.5	11758.3
17.5°	11415.2	11559.3	11792.6	11749.2	11495.3	11298.6	11315.8	11503.3	11645.1
20°	11351.2	11474.7	11665.7	11606.2	11380.9	11183.1	11188.8	11330.6	11458.7
22.5°	11242.6	11339.8	11478.1	11421.0	11210.5	11031.0	11007.0	11125.9	11233.4
25°	11081.3	11160.2	11271.2	11209.4	10997.8	10814.9	10761.1	10836.6	10901.8
27.5°	10844.6	10872.0	10934.9	10840.0	10644.5	10464.9	10352.9	10364.3	10398.6
30°	10389.5	10434.1	10439.8	10331.1	10135.6	9927.4	9824.5	9767.3	9794.8
32.5°	9854.3	9841.7	9784.5	9653.0	9499.7	9333.9	9139.5	9074.3	9089.2
35°	9219.6	9189.8	9073.2	8947.4	8809.0	8605.5	8428.2	8332.1	8327.6
37.5°	8446.5	8406.5	8329.9	8156.0	8029.1	7857.6	7664.3	7557.9	7477.9
40°	7702.0	7639.1	7548.8	7340.7	7180.6	6941.5	6743.7	6596.2	6574.5
42.5°	6741.4	6710.5	6581.3	6372.0	6171.9	5889.5	5659.6	5536.1	5472.0
45°	5669.9	5669.9	5501.8	5317.7	5103.8	4893.4	4685.3	4501.1	4423.4
47.5°	4710.4	4591.5	4432.5	4235.8	4079.2	3930.5	3709.8	3483.4	3430.7
50°	3733.8	3658.3	3470.8	3283.2	3187.2	3045.4	2871.5	2652.0	2595.9
52.5°	2885.3	2766.3	2603.9	2464.4	2374.1	2263.2	2074.5	1924.7	1896.1
55°	2066.5	2005.8	1910.9	1796.6	1681.1	1564.4	1452.4	1366.6	1328.8
57.5°	1415.8	1395.2	1316.3	1248.8	1136.7	1033.8	930.9	903.4	905.7
60°	926.3	925.2	886.3	825.7	728.5	634.7	586.7	572.9	582.1
62.5°	560.4	570.6	560.4	524.9	450.6	378.5	344.2	351.1	345.4
65°	333.9	344.2	340.8	295.0	250.4	219.6	195.6	186.4	192.1
67.5°	194.4	188.7	173.8	152.1	124.7	102.9	86.9	78.9	80.1
70°	85.8	81.2	73.2	56.0	42.3	34.3	28.6	26.3	27.4
72.5°	32.0	30.9	26.3	21.7	18.3	14.9	13.7	13.7	13.7
75°	17.2	16.0	13.7	11.4	10.3	10.3	10.3	10.3	10.3
77.5°	12.6	11.4	10.3	9.1	8.0	6.9	6.9	6.9	6.9
80°	9.1	8.0	6.9	5.7	5.7	4.6	4.6	4.6	4.6
82.5°	5.7	5.7	4.6	3.4	3.4	2.3	2.3	2.3	2.3
85°	3.4	3.4	2.3	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)