

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: P247436

Luminaire Tested: **LD8B100D010 ER8B100830 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100830 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: 11662.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

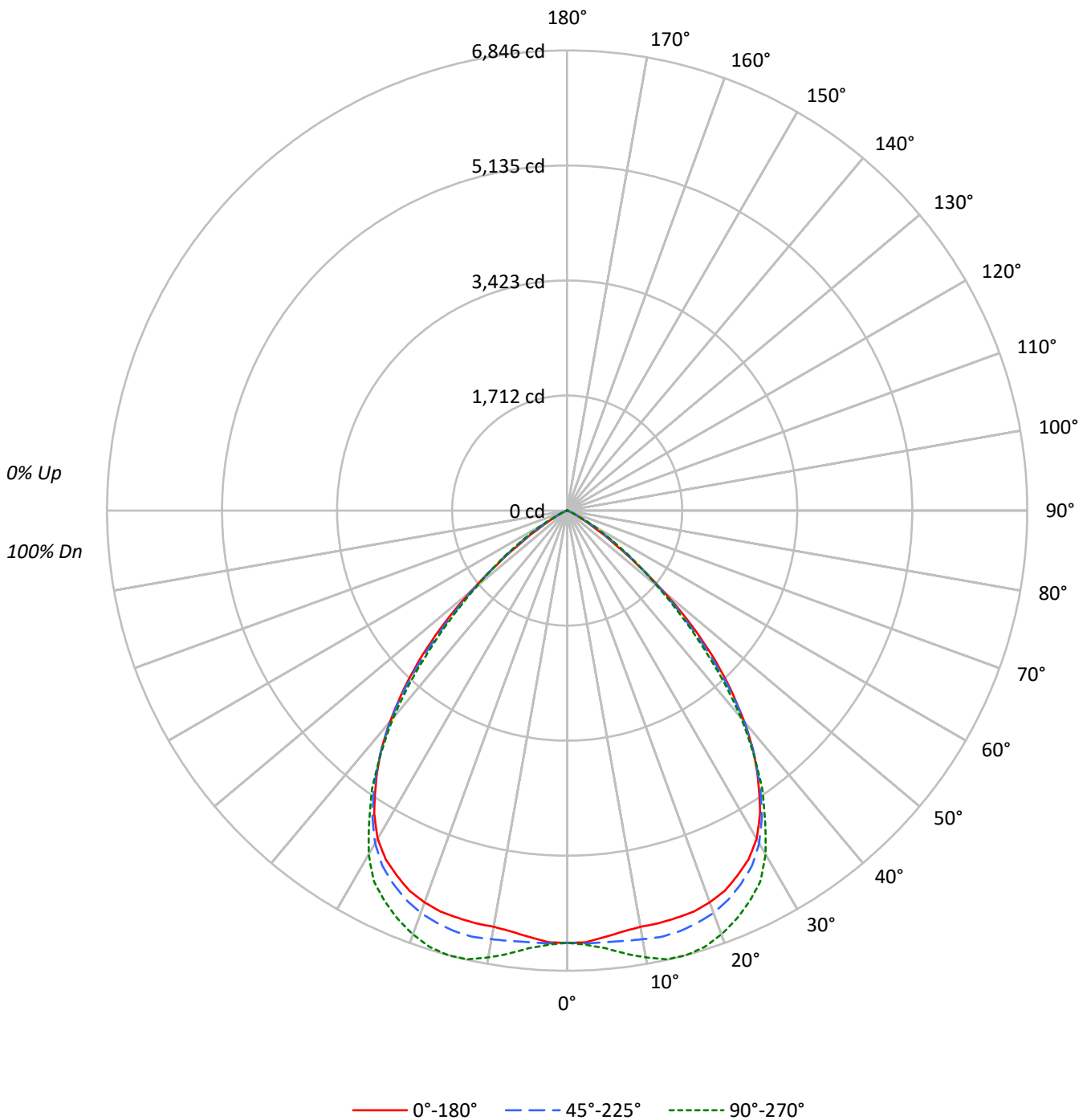
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	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	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	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°	45°	90°
0°	198268	198268	198268
5°	197168	199527	202313
10°	196827	202736	211344
15°	200276	206817	218546
20°	203527	208984	220138
25°	203883	208391	218254
30°	200772	203400	210161
35°	186858	188082	190434
40°	165154	164953	161982
45°	133030	128071	123113
50°	89325	86989	84053
55°	45348	49246	52272
60°	18576	22739	26513
65°	6932	7384	8661
70°	451	451	334
75°	894	1489	1930
80°	213	0	0
85°	885	0	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.4	5.3
10°-20°	1840.0	15.8
20°-30°	2831.5	24.3
30°-40°	3101.2	26.6
40°-50°	2254.9	19.3
50°-60°	867.4	7.4
60°-70°	135.9	1.2
70°-80°	9.7	0.1
80°-90°	3.9	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°	5288.9	45.4
0°-40°	8390.1	71.9
0°-60°	11512.4	98.7
0°-90°	11662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6430	6430	6430	6430	6430	
5°	6370	6402	6446	6507	6536	605
15°	6274	6322	6478	6718	6846	1775
25°	5992	6028	6125	6306	6415	2756
35°	4964	4964	4996	5028	5059	3082
45°	3050	3019	2937	2862	2823	2319
55°	844	866	916	946	972	824
65°	95	99	101	115	119	116
75°	8	16	12	16	16	10
85°	2	0	0	0	2	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6429.7	6429.7	6429.7	6429.7	6429.7
2.5°	6428.4	6438.4	6444.7	6458.4	6464.7
5°	6369.7	6402.2	6445.9	6507.2	6535.9
7.5°	6318.5	6363.5	6457.2	6589.7	6648.4
10°	6286.0	6334.7	6474.7	6654.6	6749.6
12.5°	6289.7	6343.5	6494.7	6710.9	6838.3
15°	6273.5	6322.2	6478.4	6718.4	6845.8
17.5°	6254.7	6294.7	6433.4	6668.4	6805.9
20°	6202.2	6236.0	6368.5	6580.9	6708.4
22.5°	6123.5	6154.8	6264.7	6462.2	6579.7
25°	5992.3	6028.5	6124.8	6306.0	6414.7
27.5°	5846.1	5867.3	5956.1	6121.0	6224.7
30°	5638.6	5646.1	5712.4	5839.8	5902.3
32.5°	5342.5	5341.2	5391.2	5454.9	5478.7
35°	4963.8	4963.8	4996.3	5027.5	5058.8
37.5°	4570.1	4565.1	4568.9	4576.4	4550.1
40°	4102.8	4092.8	4097.8	4052.8	4024.0
42.5°	3590.4	3599.1	3549.1	3469.2	3439.2
45°	3050.5	3019.3	2936.8	2861.8	2823.1
47.5°	2476.9	2428.2	2349.4	2272.0	2265.7
50°	1862.0	1864.5	1813.3	1769.6	1752.1
52.5°	1292.2	1305.9	1332.2	1337.2	1343.4
55°	843.5	866.0	916.0	946.0	972.3
57.5°	516.1	557.4	599.9	656.1	661.1
60°	301.2	321.2	368.7	411.2	429.9
62.5°	170.0	188.7	198.7	223.7	229.9
65°	95.0	98.7	101.2	115.0	118.7
67.5°	57.5	60.0	62.5	61.2	63.7
70°	5.0	11.2	5.0	6.2	3.7
72.5°	21.2	13.7	15.0	11.2	7.5
75°	7.5	16.2	12.5	16.2	16.2
77.5°	5.0	3.7	6.2	7.5	6.2
80°	1.2	0.0	0.0	0.0	0.0
82.5°	11.2	10.0	6.2	10.0	3.7
85°	2.5	0.0	0.0	0.0	2.5
87.5°	7.5	3.7	3.7	8.7	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)