

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: P247664

Luminaire Tested: **LD8B100D010 ER8B100927 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100927 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915.5 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

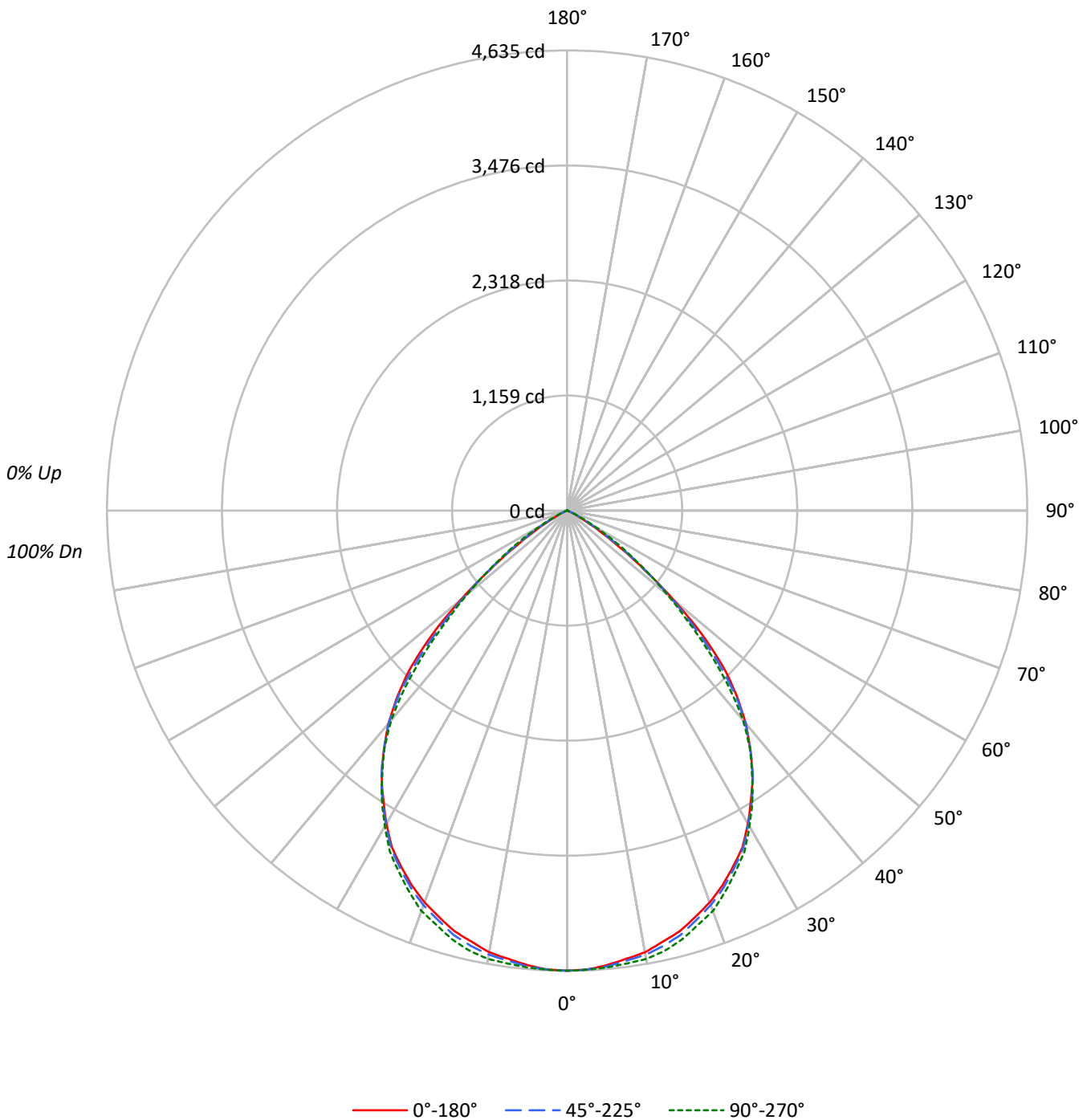
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.7	5.5
10°-20°	1245.5	15.7
20°-30°	1829.8	23.1
30°-40°	2025.8	25.6
40°-50°	1614.4	20.4
50°-60°	661.5	8.4
60°-70°	97.4	1.2
70°-80°	1.4	0.0
80°-90°	2.0	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°	3513.0	44.4
0°-40°	5538.8	70.0
0°-60°	7814.7	98.7
0°-90°	7915.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7915.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4635	4635	4635	4635	4635	
5°	4596	4604	4608	4615	4619	436
15°	4386	4389	4424	4466	4472	1234
25°	3956	3952	3977	4000	4013	1819
35°	3256	3252	3262	3257	3248	2024
45°	2221	2201	2130	2051	2033	1667
55°	654	676	711	751	752	629
65°	62	65	76	84	81	82
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4634.7	4634.7	4634.7	4634.7	4634.7
2.5°	4626.6	4627.6	4627.6	4622.4	4628.6
5°	4596.0	4604.2	4608.2	4615.3	4619.4
7.5°	4553.2	4551.2	4572.6	4598.0	4601.0
10°	4517.6	4513.5	4542.1	4575.6	4584.8
12.5°	4447.3	4452.4	4489.1	4523.7	4542.1
15°	4386.3	4389.3	4424.0	4465.7	4471.8
17.5°	4291.7	4300.8	4324.2	4367.9	4376.1
20°	4199.0	4203.1	4229.6	4265.2	4291.7
22.5°	4086.0	4093.1	4113.4	4145.1	4158.2
25°	3955.7	3951.7	3977.1	4000.5	4012.8
27.5°	3823.4	3816.2	3835.6	3858.0	3869.2
30°	3640.2	3638.1	3649.3	3663.6	3672.7
32.5°	3447.8	3452.8	3464.0	3468.2	3471.2
35°	3256.4	3252.3	3261.5	3257.4	3248.2
37.5°	3029.4	3032.4	3032.4	3028.4	3024.3
40°	2798.3	2801.4	2795.3	2772.9	2756.6
42.5°	2527.5	2529.6	2498.1	2448.1	2414.6
45°	2221.1	2200.7	2130.5	2051.1	2032.9
47.5°	1835.3	1800.7	1727.4	1667.4	1646.0
50°	1403.8	1378.2	1353.8	1322.3	1316.1
52.5°	984.4	997.5	1006.8	1016.9	1013.8
55°	653.5	675.9	710.6	751.3	752.3
57.5°	393.0	418.4	462.2	506.9	528.3
60°	231.1	241.2	272.8	306.4	316.6
62.5°	125.2	128.2	142.5	176.1	171.0
65°	62.1	65.1	76.4	83.5	81.4
67.5°	30.5	33.6	35.7	45.8	37.7
70°	7.1	2.0	4.0	5.1	2.0
72.5°	0.0	0.0	2.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	0.0	0.0	0.0	4.0
80°	9.1	6.1	2.0	2.0	3.0
82.5°	3.0	1.0	3.0	1.0	0.0
85°	0.0	0.0	0.0	4.0	0.0
87.5°	5.1	1.0	1.0	3.0	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)