

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: P247231

Luminaire Tested: **LD8B90D010 ER8B909727 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B909727 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7182.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

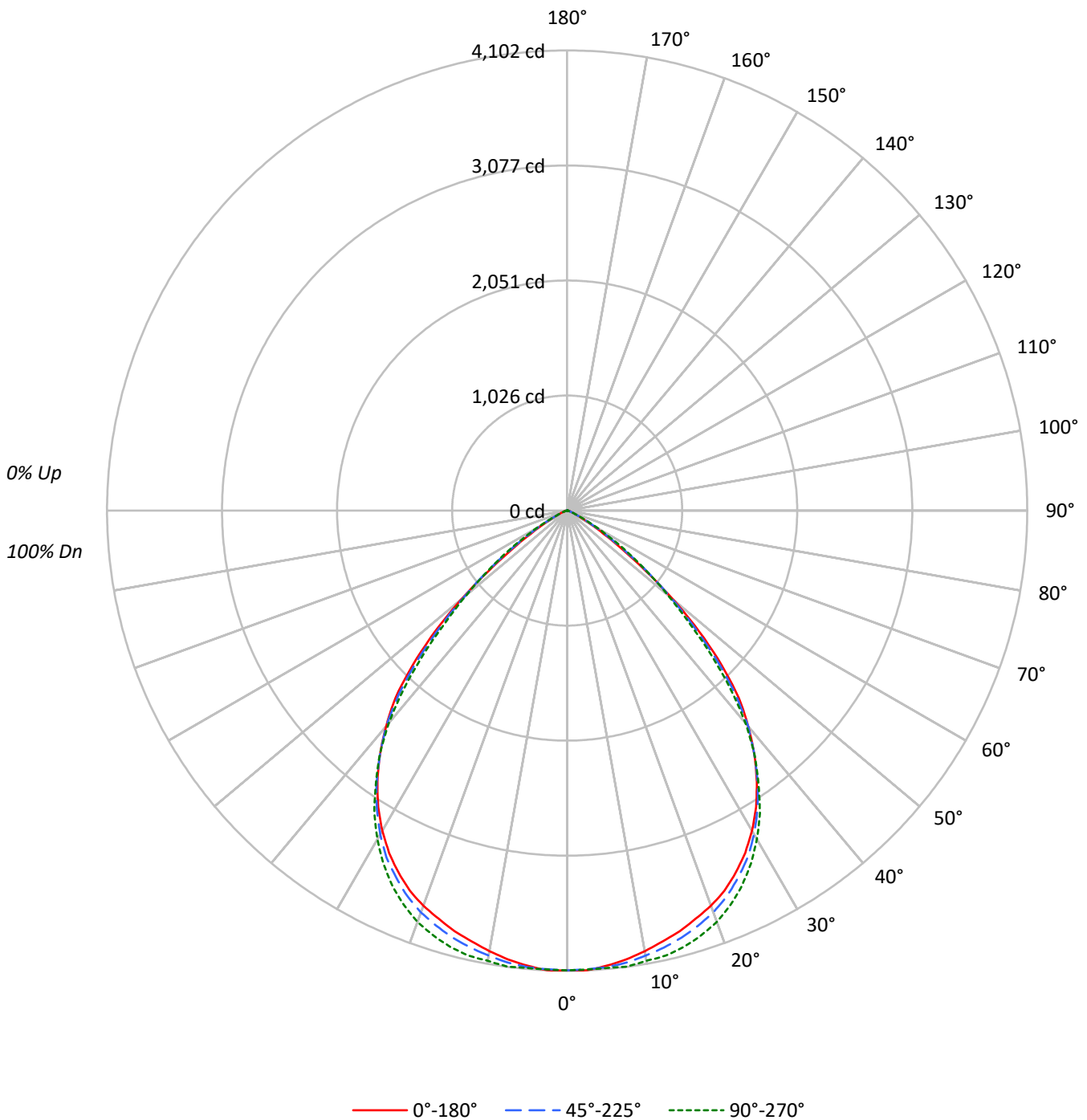
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68		76	71	68		74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	68	57	51	46	56	50	45		55	49	45		54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42		51	46	41		50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38		48	42	38		47	42	38	36

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°	388.3	5.4
10°-20°	1113.4	15.5
20°-30°	1661.4	23.1
30°-40°	1840.0	25.6
40°-50°	1434.9	20.0
50°-60°	601.4	8.4
60°-70°	120.5	1.7
70°-80°	19.2	0.3
80°-90°	3.0	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°	3163.1	44.0
0°-40°	5003.0	69.7
0°-60°	7039.4	98.0
0°-90°	7182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4099	4099	4099	4099	4099	
5°	4073	4076	4084	4096	4093	386
15°	3881	3898	3942	4000	4026	1095
25°	3559	3573	3608	3664	3688	1635
35°	2948	2943	2961	2976	2972	1832
45°	1949	1940	1890	1832	1808	1474
55°	587	610	649	675	688	572
65°	92	92	92	100	96	111
75°	27	24	24	19	17	22
85°	1	2	1	0	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4098.6	4098.6	4098.6	4098.6	4098.6
2.5°	4101.8	4093.9	4092.3	4097.0	4093.9
5°	4072.7	4075.9	4084.5	4095.5	4093.1
7.5°	4035.1	4040.6	4064.1	4092.3	4099.4
10°	3988.0	3999.8	4028.0	4060.2	4075.1
12.5°	3933.1	3948.8	3989.6	4035.9	4063.3
15°	3880.6	3897.8	3941.8	3999.8	4026.5
17.5°	3814.7	3837.5	3880.6	3943.3	3970.8
20°	3748.8	3769.2	3810.8	3872.0	3902.5
22.5°	3667.3	3682.2	3721.4	3773.1	3804.5
25°	3559.0	3573.2	3608.4	3664.1	3688.4
27.5°	3438.3	3454.7	3486.9	3525.3	3547.3
30°	3295.5	3308.9	3331.6	3366.1	3382.6
32.5°	3134.7	3135.5	3158.3	3184.2	3199.1
35°	2948.1	2943.4	2961.4	2975.5	2972.4
37.5°	2741.8	2742.6	2741.0	2742.6	2745.7
40°	2511.2	2500.3	2508.9	2489.3	2475.2
42.5°	2266.6	2255.6	2221.8	2178.7	2155.2
45°	1948.9	1940.3	1890.1	1832.1	1808.5
47.5°	1599.9	1573.3	1532.5	1483.1	1460.3
50°	1230.5	1227.4	1203.1	1191.3	1170.9
52.5°	880.0	880.0	909.8	905.1	904.3
55°	587.4	610.2	649.4	675.3	687.8
57.5°	382.7	403.9	436.8	464.3	476.8
60°	247.8	258.0	281.6	302.7	317.6
62.5°	153.7	162.3	174.9	188.2	193.7
65°	91.8	91.8	92.5	99.6	96.5
67.5°	62.0	64.3	61.2	61.2	69.0
70°	40.0	37.6	36.9	36.1	36.1
72.5°	25.9	22.0	23.5	25.1	22.0
75°	26.7	24.3	24.3	18.8	17.3
77.5°	9.4	10.2	7.1	5.5	4.7
80°	0.8	3.1	3.1	0.8	0.0
82.5°	9.4	8.6	7.1	11.0	7.1
85°	0.8	1.6	0.8	0.0	3.9
87.5°	0.0	0.0	0.0	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)