

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: P247230

Luminaire Tested: **LD8B80D010 ER8B80927 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247230
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: LD8B80D010 ER8B80927 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: 7174.1 lumens
Efficiency: N/A
Efficacy: 96.4 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

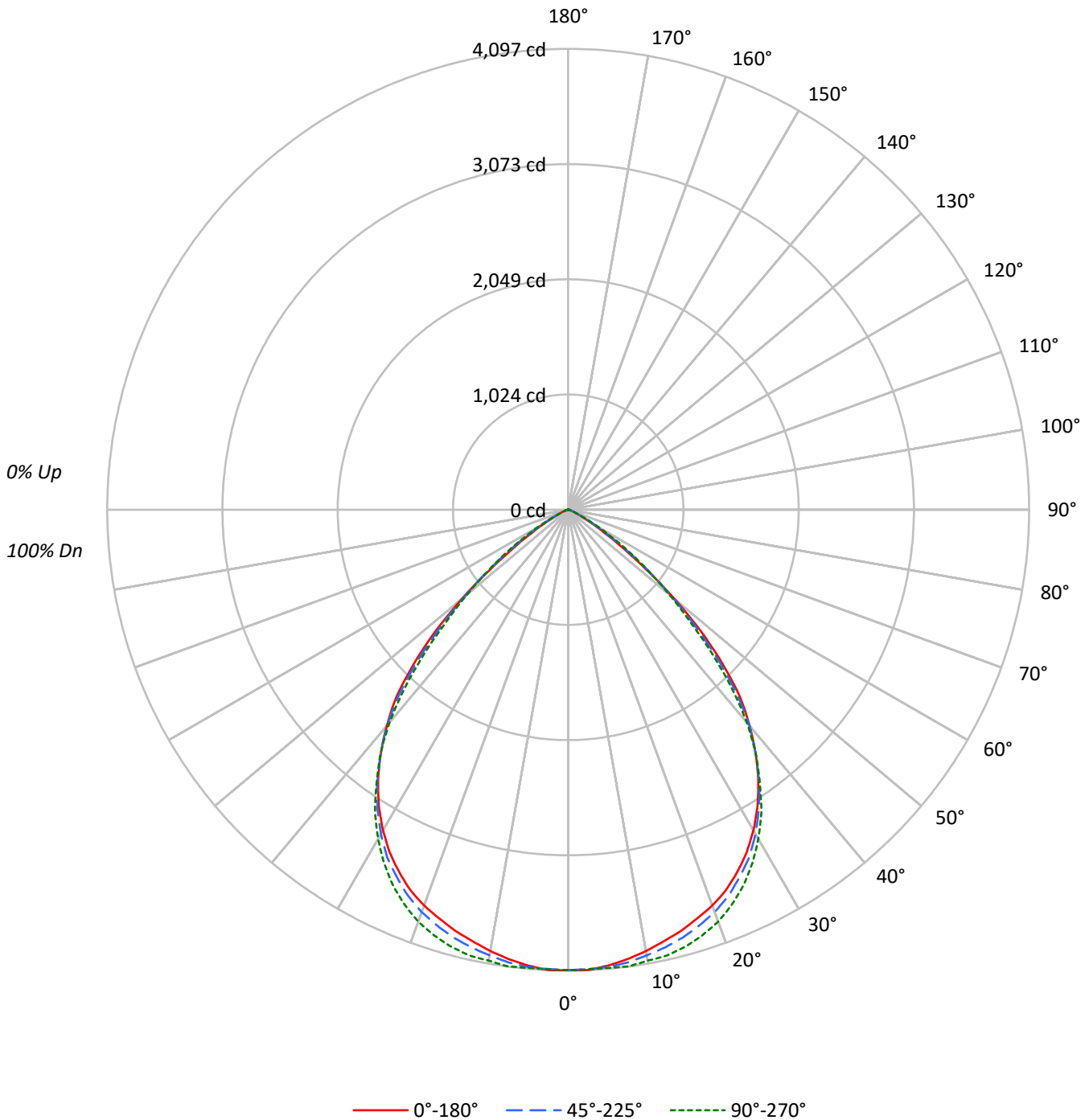
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36	36	36	36	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°	387.8	5.4
10°-20°	1112.2	15.5
20°-30°	1659.5	23.1
30°-40°	1837.9	25.6
40°-50°	1433.3	20.0
50°-60°	600.8	8.4
60°-70°	120.3	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°	3159.6	44.0
0°-40°	4997.5	69.7
0°-60°	7031.6	98.0
0°-90°	7174.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7174.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4094	4094	4094	4094	4094	
5°	4068	4071	4080	4091	4089	386
15°	3876	3894	3937	3995	4022	1094
25°	3555	3569	3604	3660	3684	1634
35°	2945	2940	2958	2972	2969	1830
45°	1947	1938	1888	1830	1806	1473
55°	587	610	649	675	687	572
65°	92	92	92	99	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°	4094.1	4094.1	4094.1	4094.1	4094.1
2.5°	4097.2	4089.4	4087.8	4092.5	4089.4
5°	4068.2	4071.4	4080.0	4091.0	4088.6
7.5°	4030.6	4036.2	4059.7	4087.8	4094.9
10°	3983.6	3995.4	4023.6	4055.7	4070.6
12.5°	3928.8	3944.5	3985.2	4031.4	4058.9
15°	3876.3	3893.6	3937.4	3995.4	4022.1
17.5°	3810.5	3833.2	3876.3	3939.0	3966.4
20°	3744.7	3765.0	3806.7	3867.8	3898.2
22.5°	3663.2	3678.1	3717.3	3769.0	3800.4
25°	3555.1	3569.3	3604.5	3660.1	3684.4
27.5°	3434.5	3450.9	3483.1	3521.5	3543.4
30°	3291.9	3305.2	3328.0	3362.4	3378.8
32.5°	3131.3	3132.1	3154.8	3180.7	3195.6
35°	2944.8	2940.2	2958.2	2972.2	2969.1
37.5°	2738.8	2739.6	2738.0	2739.6	2742.8
40°	2508.5	2497.5	2506.2	2486.6	2472.4
42.5°	2264.1	2253.2	2219.4	2176.3	2152.8
45°	1946.8	1938.2	1888.0	1830.0	1806.5
47.5°	1598.2	1571.5	1530.8	1481.4	1458.7
50°	1229.2	1226.0	1201.7	1190.0	1169.7
52.5°	879.0	879.0	908.8	904.0	903.3
55°	586.8	609.5	648.7	674.6	687.0
57.5°	382.3	403.4	436.4	463.7	476.3
60°	247.6	257.7	281.2	302.4	317.2
62.5°	153.6	162.1	174.7	188.0	193.5
65°	91.7	91.7	92.5	99.4	96.4
67.5°	61.9	64.2	61.1	61.1	69.0
70°	39.9	37.6	36.8	36.0	36.0
72.5°	25.9	21.9	23.5	25.1	21.9
75°	26.7	24.3	24.3	18.8	17.2
77.5°	9.5	10.2	7.1	5.5	4.7
80°	0.8	3.2	3.2	0.8	0.0
82.5°	9.5	8.7	7.1	10.9	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)