

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: P247134

Luminaire Tested: **LD8B80D010 ER8B80927 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80927 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7364.2 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

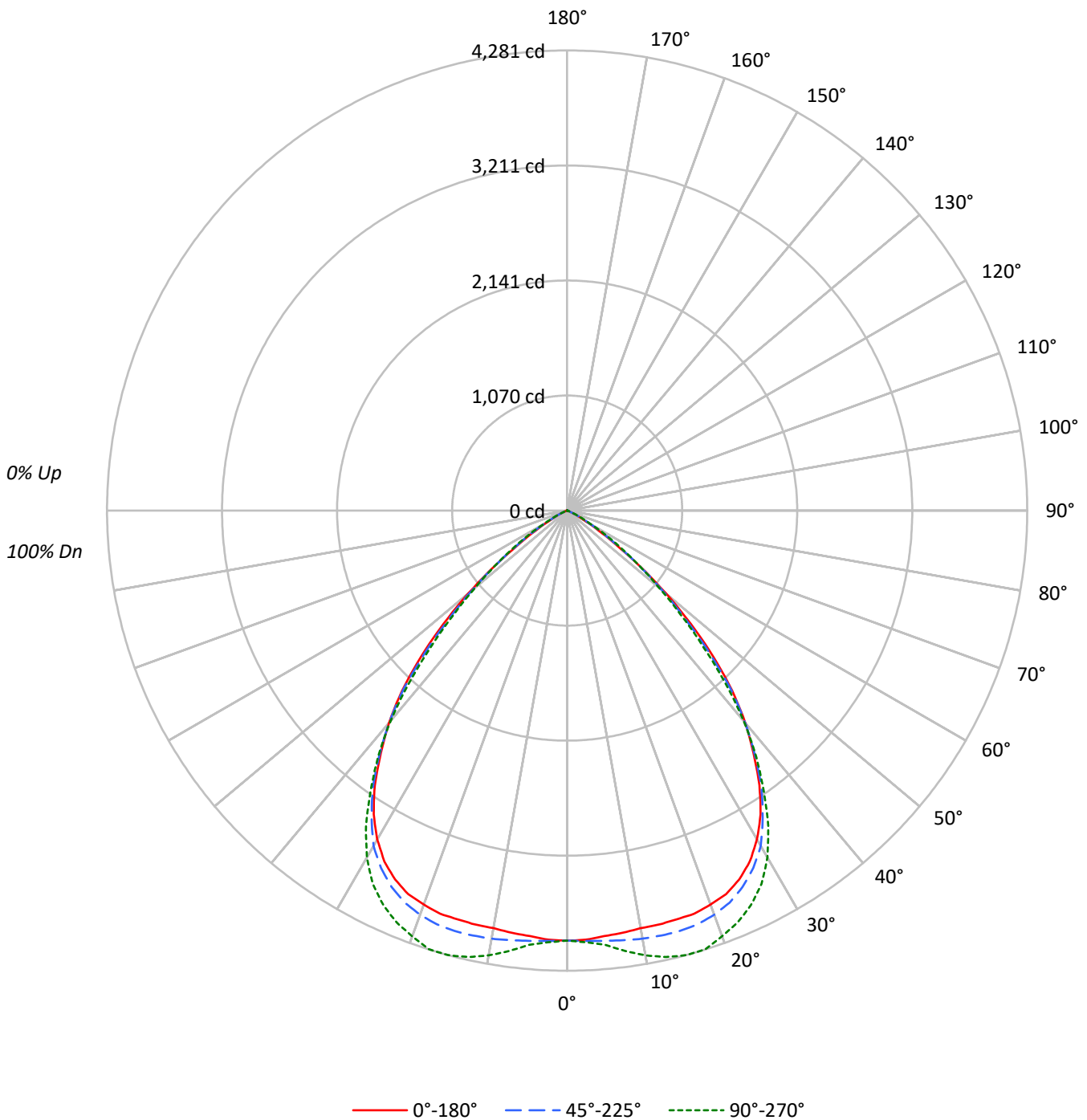
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	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°	384.9	5.2
10°-20°	1152.4	15.6
20°-30°	1783.3	24.2
30°-40°	1953.2	26.5
40°-50°	1429.0	19.4
50°-60°	560.7	7.6
60°-70°	90.7	1.2
70°-80°	8.4	0.1
80°-90°	1.7	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°	3320.6	45.1
0°-40°	5273.8	71.6
0°-60°	7263.4	98.6
0°-90°	7364.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7364.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4000	4000	4000	4000	4000	
5°	3974	3984	4018	4047	4056	379
15°	3936	3962	4050	4200	4281	1115
25°	3786	3798	3863	3980	4048	1736
35°	3119	3124	3151	3181	3189	1931
45°	1925	1922	1870	1813	1788	1466
55°	552	564	588	609	629	543
65°	66	64	70	77	82	80
75°	5	7	9	6	8	8
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4000.2	4000.2	4000.2	4000.2	4000.2
2.5°	3996.2	3998.6	4006.5	4014.2	4019.0
5°	3974.3	3983.7	4018.2	4047.2	4055.7
7.5°	3961.0	3976.6	4030.8	4103.6	4131.8
10°	3944.6	3967.3	4044.0	4147.4	4202.2
12.5°	3945.4	3967.3	4048.8	4183.4	4254.0
15°	3935.9	3961.8	4049.6	4200.0	4281.4
17.5°	3933.6	3946.2	4035.4	4188.2	4278.3
20°	3899.9	3917.1	4001.0	4136.5	4214.0
22.5°	3863.1	3870.9	3947.7	4080.8	4146.6
25°	3786.3	3798.1	3863.1	3979.8	4048.0
27.5°	3680.6	3682.9	3748.7	3856.8	3916.4
30°	3532.6	3544.3	3603.0	3682.9	3725.2
32.5°	3349.2	3347.7	3386.1	3455.8	3483.2
35°	3119.0	3124.5	3151.1	3180.8	3188.7
37.5°	2848.7	2855.8	2873.8	2884.0	2891.0
40°	2579.3	2579.3	2576.9	2566.0	2557.4
42.5°	2272.3	2262.2	2250.3	2201.7	2180.6
45°	1925.3	1922.2	1870.4	1813.3	1788.2
47.5°	1560.3	1543.0	1489.0	1442.8	1432.6
50°	1202.3	1184.3	1156.2	1133.4	1118.5
52.5°	856.9	843.6	855.3	855.3	853.8
55°	552.3	564.0	587.5	608.6	629.0
57.5°	350.1	365.7	401.8	429.2	436.3
60°	200.5	212.3	237.4	261.6	266.3
62.5°	126.1	126.9	143.3	157.4	166.0
65°	65.8	64.2	69.8	76.7	82.2
67.5°	27.4	27.4	32.8	32.1	40.7
70°	14.1	11.7	13.3	15.6	18.0
72.5°	10.2	7.9	10.9	14.1	6.3
75°	4.7	7.1	8.7	6.3	7.9
77.5°	6.3	6.3	4.7	7.9	1.6
80°	4.7	3.2	5.5	2.4	0.0
82.5°	0.8	1.6	0.8	0.8	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.4	3.9	3.2	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)