

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: P247375

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909727 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7031.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

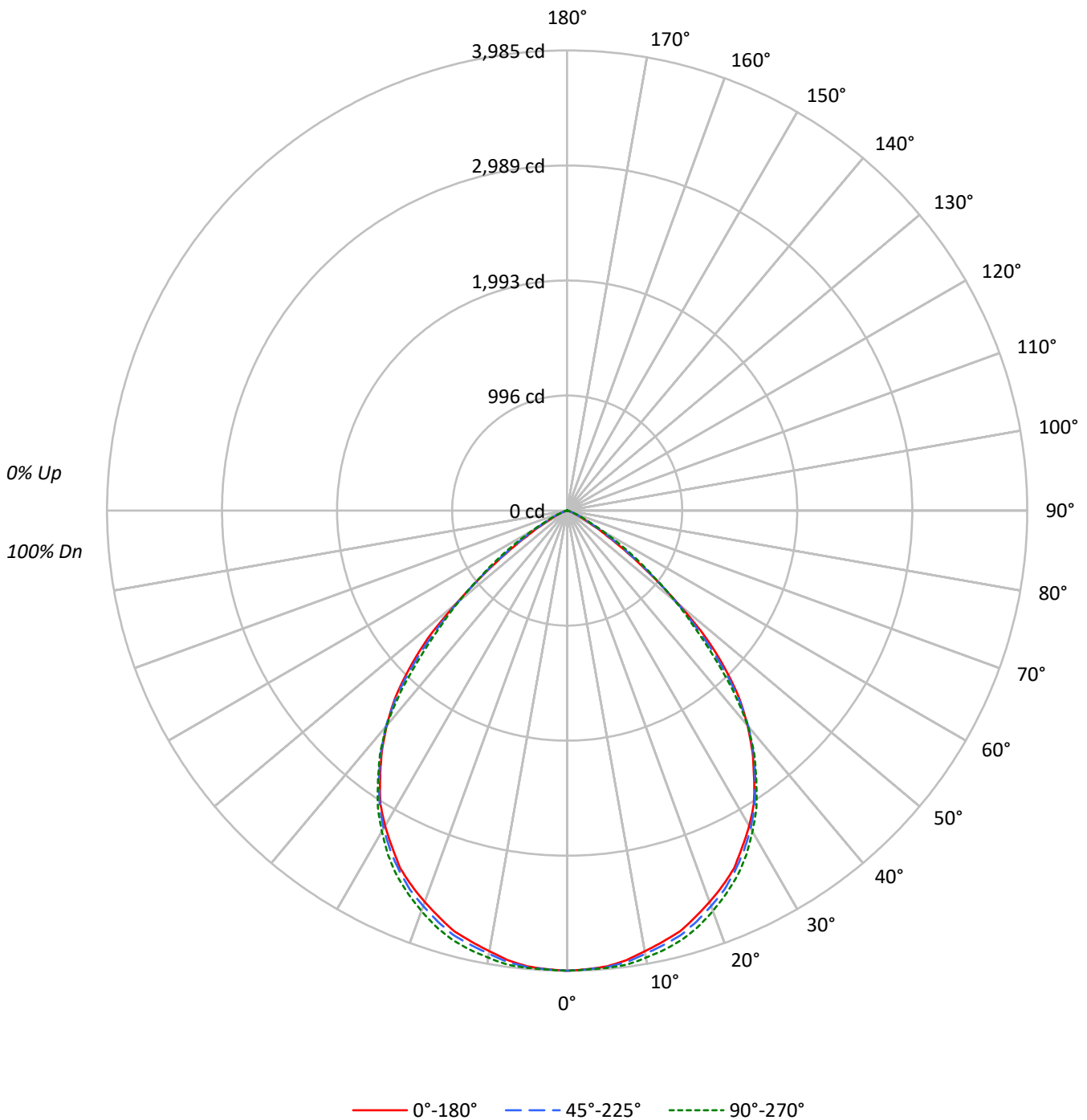
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100				
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91	91	91				
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81	81	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72				
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64				
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58				
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52				
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47				
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43	43	43				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39	39	39				
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	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°	376.6	5.4
10°-20°	1071.5	15.2
20°-30°	1583.0	22.5
30°-40°	1768.9	25.2
40°-50°	1428.1	20.3
50°-60°	635.2	9.0
60°-70°	143.1	2.0
70°-80°	22.1	0.3
80°-90°	2.6	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°	3031.1	43.1
0°-40°	4799.9	68.3
0°-60°	6863.2	97.6
0°-90°	7031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3985	3985	3985	3985	3985	
5°	3962	3961	3968	3969	3975	375
15°	3774	3776	3806	3835	3847	1061
25°	3419	3419	3441	3469	3489	1567
35°	2823	2822	2840	2844	2855	1760
45°	1935	1920	1884	1817	1808	1463
55°	643	652	682	717	738	605
65°	106	119	128	139	147	123
75°	14	20	20	20	24	18
85°	2	2	4	9	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3985.3	3985.3	3985.3	3985.3	3985.3
2.5°	3975.1	3972.7	3976.7	3974.3	3978.2
5°	3961.8	3961.0	3968.0	3968.8	3975.1
7.5°	3927.2	3928.0	3942.9	3953.9	3966.5
10°	3874.7	3877.8	3897.4	3921.8	3932.0
12.5°	3824.5	3828.4	3853.5	3887.3	3895.1
15°	3773.5	3775.9	3806.5	3834.7	3847.3
17.5°	3690.4	3706.1	3729.6	3761.8	3778.2
20°	3607.3	3618.3	3644.9	3680.2	3689.6
22.5°	3516.3	3528.1	3554.8	3583.8	3594.0
25°	3419.1	3419.1	3441.0	3469.3	3488.9
27.5°	3283.4	3299.9	3315.6	3340.7	3360.3
30°	3154.0	3160.3	3179.1	3199.5	3208.9
32.5°	3010.5	3011.3	3019.9	3042.7	3051.3
35°	2823.1	2821.5	2840.4	2843.5	2855.3
37.5°	2635.7	2643.5	2650.6	2661.6	2662.3
40°	2431.0	2434.9	2442.8	2431.0	2436.5
42.5°	2208.3	2202.8	2187.9	2152.6	2137.7
45°	1934.6	1919.7	1883.6	1817.0	1808.4
47.5°	1632.7	1595.8	1551.9	1502.5	1493.1
50°	1255.5	1258.6	1236.7	1220.2	1221.8
52.5°	915.2	926.1	931.6	947.3	955.9
55°	643.0	652.4	681.5	716.8	737.9
57.5°	416.4	434.4	472.1	512.1	527.0
60°	265.8	277.6	311.3	340.3	359.9
62.5°	174.1	178.0	196.8	223.5	224.3
65°	105.9	119.2	127.8	138.8	146.6
67.5°	69.0	69.0	76.9	87.0	89.4
70°	40.0	40.8	44.7	48.6	51.0
72.5°	22.0	24.3	26.7	30.6	34.5
75°	14.1	19.6	20.4	19.6	23.5
77.5°	9.4	9.4	7.8	13.3	14.1
80°	7.8	5.5	7.1	10.2	11.0
82.5°	0.0	0.8	0.8	1.6	0.0
85°	1.6	2.4	3.9	8.6	2.4
87.5°	0.0	2.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)