

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: P247710

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B809727 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6027.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

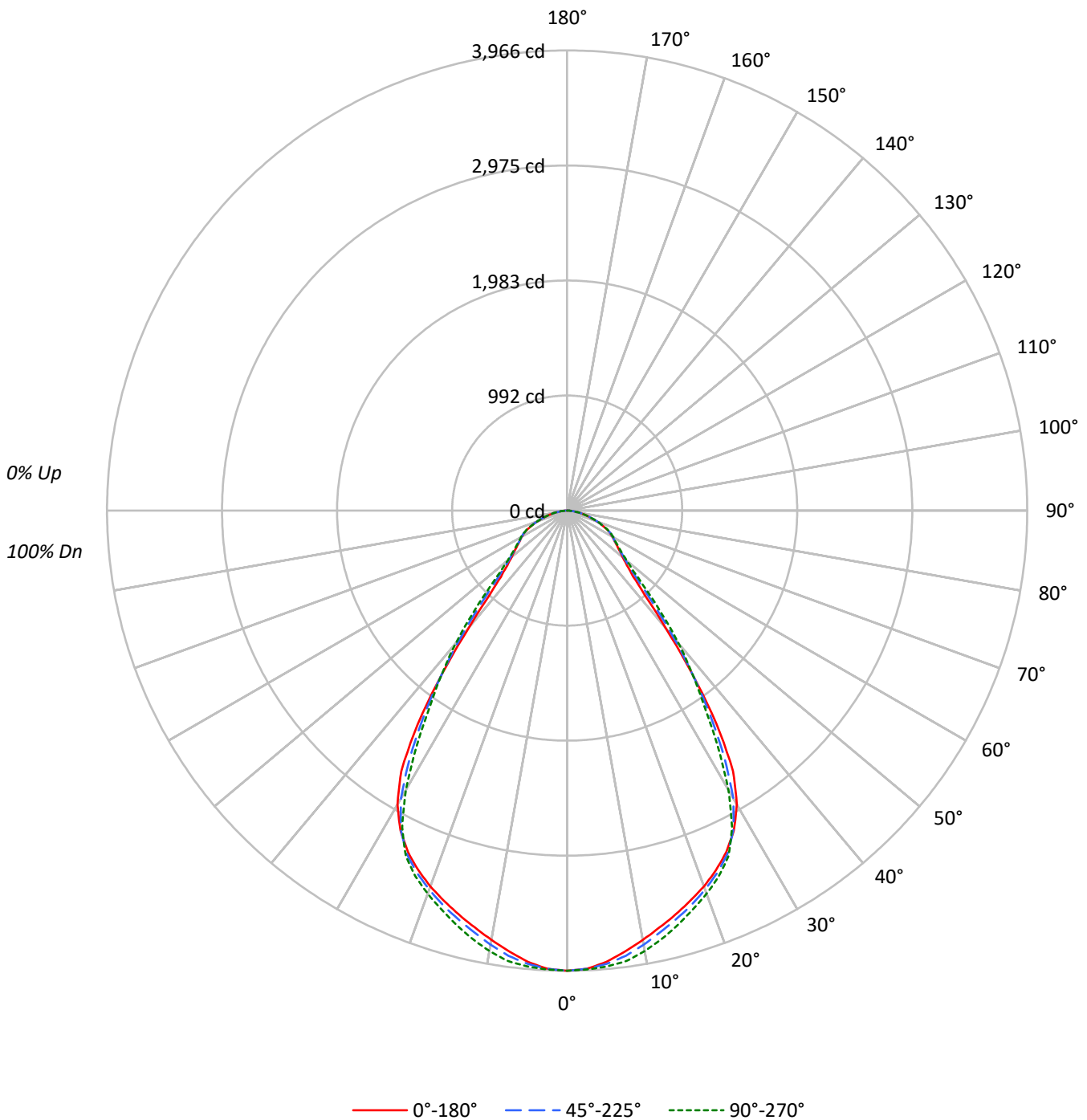
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	370.6	6.1
10°-20°	1028.3	17.1
20°-30°	1486.5	24.7
30°-40°	1330.3	22.1
40°-50°	719.9	11.9
50°-60°	479.8	8.0
60°-70°	367.5	6.1
70°-80°	194.8	3.2
80°-90°	49.3	0.8
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°	2885.4	47.9
0°-40°	4215.7	69.9
0°-60°	5415.5	89.9
0°-90°	6027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3966	3966	3966	3966	3966	
5°	3903	3905	3922	3937	3944	368
15°	3605	3612	3643	3679	3695	1017
25°	3246	3254	3266	3282	3288	1485
35°	2246	2223	2145	2083	2062	1359
45°	808	831	884	939	959	665
55°	522	524	529	535	537	472
65°	372	373	376	379	379	364
75°	180	180	182	183	183	194
85°	42	42	42	42	42	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3966.2	3966.2	3966.2	3966.2	3966.2
2.5°	3953.0	3951.6	3952.3	3956.4	3958.5
5°	3902.8	3904.9	3921.6	3936.9	3943.9
7.5°	3832.5	3841.5	3870.1	3900.0	3915.4
10°	3757.3	3766.3	3799.1	3841.5	3854.8
12.5°	3680.0	3691.1	3720.4	3763.6	3779.6
15°	3604.8	3611.8	3643.1	3678.6	3695.3
17.5°	3527.5	3534.5	3563.0	3590.9	3604.1
20°	3446.7	3454.4	3476.0	3499.7	3514.3
22.5°	3354.1	3361.8	3379.9	3400.8	3414.0
25°	3246.2	3253.9	3266.4	3281.7	3288.0
27.5°	3109.7	3114.6	3102.8	3090.2	3079.1
30°	2924.5	2909.2	2861.8	2801.3	2777.6
32.5°	2661.3	2611.9	2520.6	2446.8	2419.7
35°	2245.6	2222.6	2144.6	2082.7	2062.5
37.5°	1761.0	1776.3	1770.7	1766.5	1770.7
40°	1313.2	1348.8	1425.3	1477.6	1494.3
42.5°	994.3	1028.5	1114.8	1187.2	1212.3
45°	807.7	831.4	883.6	938.6	958.8
47.5°	697.0	710.2	736.7	765.9	775.7
50°	626.0	631.6	644.8	661.5	667.1
52.5°	569.6	572.4	580.0	589.1	590.5
55°	522.2	524.3	529.2	534.8	536.9
57.5°	482.5	484.6	486.0	489.5	490.9
60°	451.2	451.2	454.0	456.8	458.2
62.5°	417.1	417.1	419.9	422.7	422.7
65°	371.8	373.2	376.0	378.8	378.8
67.5°	322.4	323.1	325.2	328.0	327.3
70°	273.0	273.0	275.0	276.4	277.1
72.5°	225.6	224.9	228.4	229.1	227.0
75°	180.3	180.3	182.4	183.1	183.1
77.5°	140.7	140.0	140.0	140.7	141.4
80°	103.1	103.8	103.1	104.4	105.8
82.5°	71.7	71.0	71.0	71.0	70.3
85°	41.8	41.8	41.8	42.5	41.8
87.5°	16.7	16.7	16.0	16.0	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)