

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: P247146

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80830 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8110.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

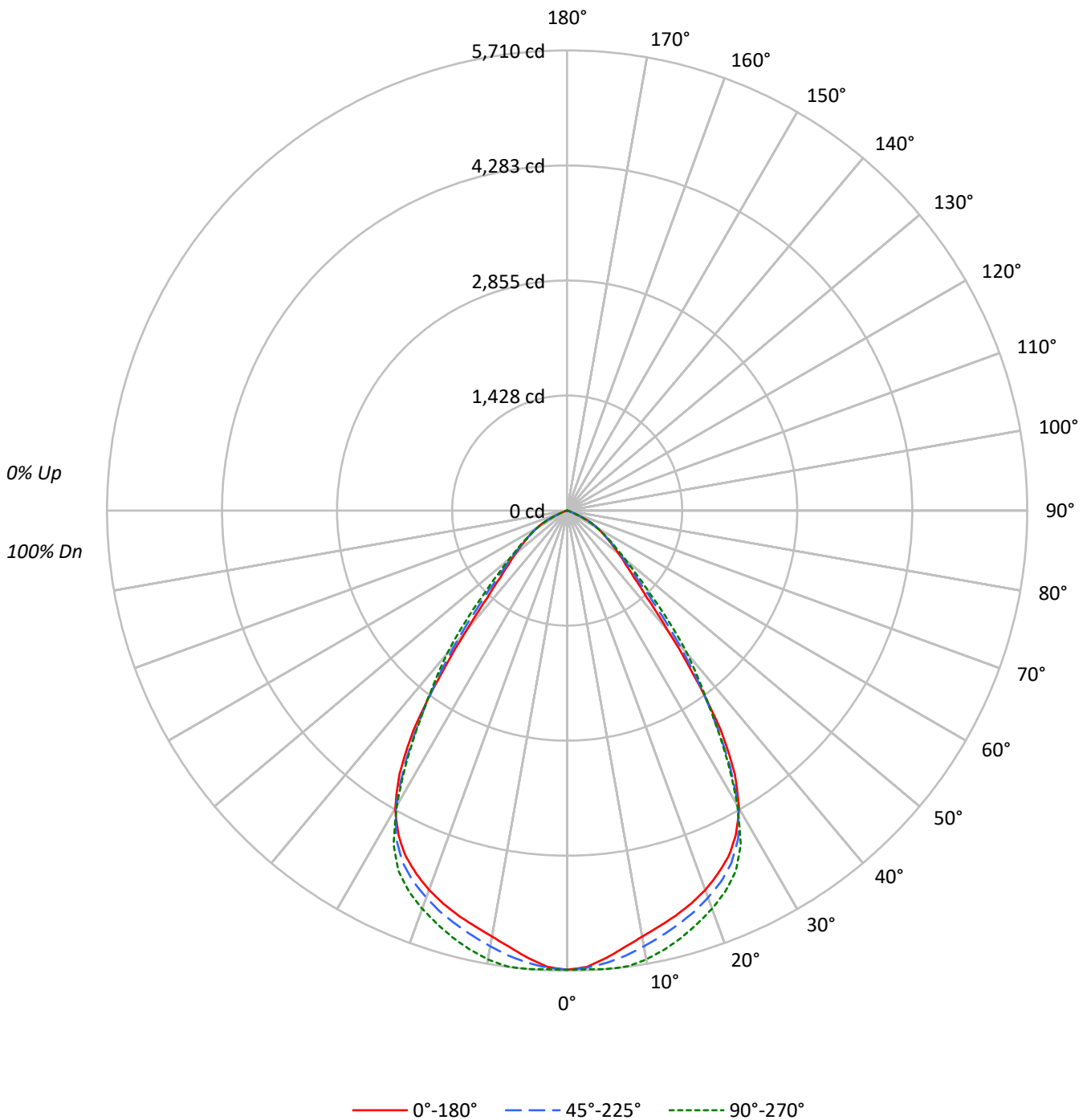
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	175693	175693	175693
5°	172467	174343	176751
10°	168045	171872	177079
15°	166143	169798	175078
20°	164408	167722	172517
25°	161172	164085	168205
30°	151959	151275	150349
35°	124998	120691	120002
40°	78270	86361	93365
45°	51079	56949	63111
50°	40273	42211	44979
55°	32827	33397	34429
60°	26865	26686	26569
65°	17402	16913	16001
70°	5987	5545	5112
75°	2061	1942	1835
80°	852	675	675
85°	354	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.7	6.6
10°-20°	1503.8	18.5
20°-30°	2199.3	27.1
30°-40°	1992.8	24.6
40°-50°	1059.6	13.1
50°-60°	565.5	7.0
60°-70°	230.7	2.8
70°-80°	23.3	0.3
80°-90°	1.4	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°	4236.8	52.2
0°-40°	6229.6	76.8
0°-60°	7854.7	96.9
0°-90°	8110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5698	5698	5698	5698	5698	
5°	5572	5586	5632	5683	5710	525
15°	5204	5234	5319	5428	5484	1468
25°	4737	4757	4823	4905	4944	2165
35°	3320	3274	3206	3182	3188	1996
45°	1171	1206	1306	1410	1447	958
55°	611	610	621	630	640	554
65°	238	238	232	218	219	238
75°	17	17	16	15	15	25
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5697.6	5697.6	5697.6	5697.6	5697.6
2.5°	5666.9	5665.9	5676.5	5689.0	5695.7
5°	5571.7	5586.1	5632.3	5683.2	5710.1
7.5°	5464.0	5490.9	5570.7	5658.2	5705.3
10°	5366.8	5401.5	5489.0	5603.4	5655.3
12.5°	5283.2	5316.8	5405.3	5522.6	5579.4
15°	5204.3	5234.1	5318.8	5428.4	5484.2
17.5°	5113.0	5141.8	5223.6	5327.4	5375.5
20°	5010.1	5034.1	5111.1	5208.2	5257.2
22.5°	4882.2	4908.1	4986.0	5075.5	5121.6
25°	4737.0	4757.2	4822.6	4905.3	4943.7
27.5°	4535.0	4553.3	4591.8	4636.0	4664.9
30°	4267.7	4262.9	4248.5	4235.0	4222.5
32.5°	3873.4	3827.3	3757.1	3712.8	3714.8
35°	3320.5	3274.3	3206.1	3182.0	3187.8
37.5°	2594.5	2629.1	2657.0	2703.1	2725.3
40°	1944.4	2004.0	2145.4	2268.5	2319.4
42.5°	1461.7	1520.3	1668.4	1798.2	1868.4
45°	1171.3	1205.9	1305.9	1409.7	1447.2
47.5°	980.9	996.2	1053.9	1120.3	1153.0
50°	839.5	849.1	879.9	916.4	937.6
52.5°	719.3	723.1	738.5	759.7	773.1
55°	610.6	609.7	621.2	629.9	640.4
57.5°	516.4	515.4	515.4	518.3	525.0
60°	435.6	432.7	432.7	428.9	430.8
62.5°	354.8	352.0	345.2	340.4	338.5
65°	238.5	237.5	231.8	218.3	219.3
67.5°	124.0	123.1	117.3	113.5	111.5
70°	66.4	64.4	61.5	58.7	56.7
72.5°	33.7	32.7	31.7	29.8	29.8
75°	17.3	17.3	16.3	15.4	15.4
77.5°	8.7	8.7	7.7	7.7	7.7
80°	4.8	4.8	3.8	3.8	3.8
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)