

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: P247606

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80940 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4925.0 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

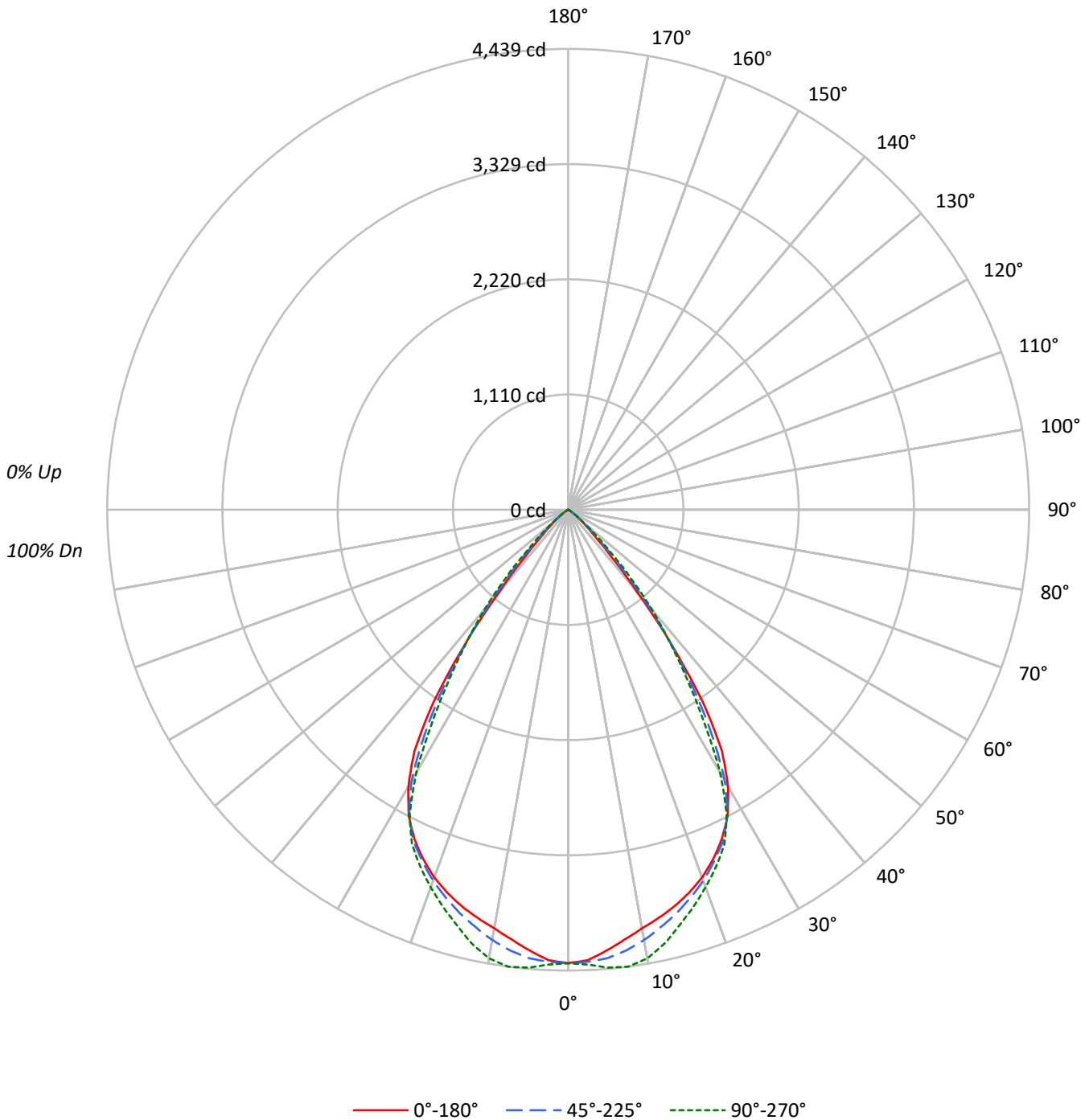
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247606

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBW0B

Luminous Intensity Polar Plot





TEST NUMBER: P247606

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBW0B

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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86					86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68					68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63					63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58					58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54					54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	134705	134705	134705
5°	131939	134254	137065
10°	128223	131792	137397
15°	126263	128510	132290
20°	123681	124820	126982
25°	119115	119966	121024
30°	109594	107468	104299
35°	84922	79121	75164
40°	41264	46819	50152
45°	15961	20544	24896
50°	7479	8544	9782
55°	3113	3349	3446
60°	1042	987	931
65°	131	197	197
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P247606

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.6	8.3
10°-20°	1136.3	23.1
20°-30°	1601.2	32.5
30°-40°	1295.4	26.3
40°-50°	411.2	8.4
50°-60°	65.7	1.3
60°-70°	4.5	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3148.1	63.9
0°-40°	4443.5	90.2
0°-60°	4920.5	99.9
0°-90°	4925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4368	4368	4368	4368	4368	
5°	4262	4282	4337	4400	4428	402
15°	3955	3970	4026	4102	4144	1114
25°	3501	3507	3526	3546	3557	1599
35°	2256	2194	2102	2026	1997	1338
45°	366	395	471	538	571	341
55°	58	59	62	65	64	60
65°	2	3	3	3	3	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P247606

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBW0B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4368.4	4368.4	4368.4	4368.4	4368.4
2.5°	4343.4	4347.9	4358.6	4379.1	4385.3
5°	4262.4	4282.0	4337.2	4400.4	4428.0
7.5°	4175.1	4200.9	4282.0	4388.9	4438.7
10°	4095.0	4122.6	4209.0	4323.0	4388.0
12.5°	4027.3	4048.7	4119.0	4221.4	4282.0
15°	3955.1	3970.3	4025.5	4102.1	4143.9
17.5°	3868.8	3882.1	3918.6	3978.3	4010.4
20°	3769.0	3772.6	3803.7	3842.0	3869.6
22.5°	3645.2	3648.8	3666.6	3703.1	3721.8
25°	3500.9	3507.2	3525.9	3545.5	3557.0
27.5°	3323.7	3326.4	3317.5	3301.4	3305.0
30°	3077.9	3068.1	3018.2	2949.7	2929.2
32.5°	2755.5	2690.5	2582.7	2486.5	2447.4
35°	2255.9	2194.4	2101.8	2026.1	1996.7
37.5°	1620.9	1625.3	1619.1	1602.2	1605.7
40°	1025.1	1066.0	1163.1	1226.4	1245.9
42.5°	615.4	659.9	766.8	852.3	879.9
45°	366.0	395.4	471.1	537.9	570.9
47.5°	235.1	249.4	286.8	326.0	344.7
50°	155.9	163.0	178.1	195.9	203.9
52.5°	99.7	102.4	109.5	115.8	122.0
55°	57.9	58.8	62.3	65.0	64.1
57.5°	30.3	30.3	30.3	30.3	30.3
60°	16.9	16.0	16.0	16.0	15.1
62.5°	8.0	8.0	8.0	7.1	7.1
65°	1.8	2.7	2.7	2.7	2.7
67.5°	0.0	0.0	0.0	0.0	0.9
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)