

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: P246700

Luminaire Tested: **LSR8B40D010 EC8B40840 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40840 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4381.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

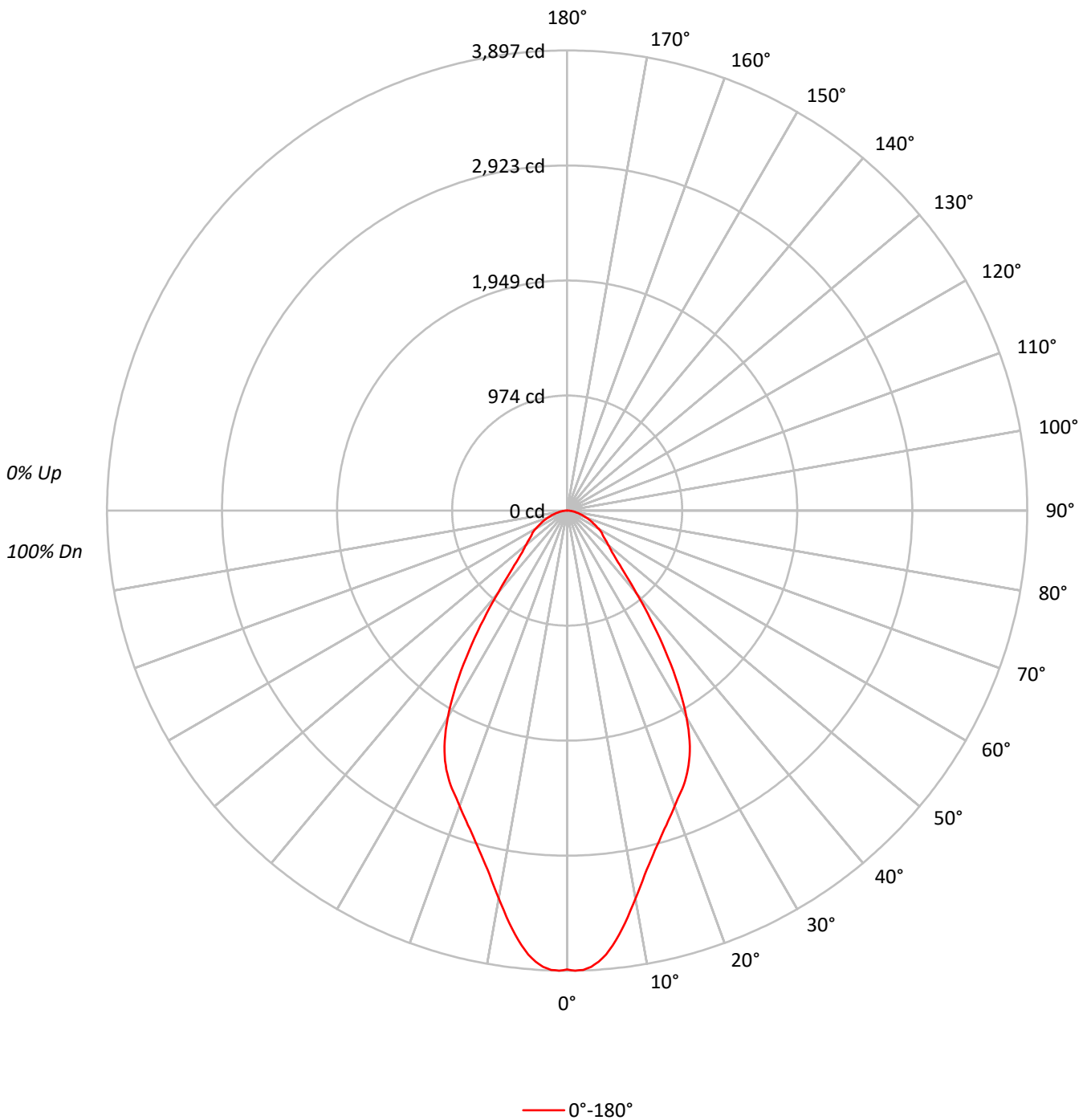
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246700

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246700

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBM0MW

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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119839
5°	116802
10°	104419
15°	93835
20°	87384
25°	82325
30°	71979
35°	54539
40°	36631
45°	25821
50°	21895
55°	19967
60°	18921
65°	17023
70°	15309
75°	13773
80°	12129
85°	11676



TEST NUMBER: P246700

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.4	7.9
10°-20°	828.9	18.9
20°-30°	1098.4	25.1
30°-40°	900.7	20.6
40°-50°	479.8	11.0
50°-60°	337.7	7.7
60°-70°	232.9	5.3
70°-80°	121.3	2.8
80°-90°	35.9	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°	2272.7	51.9
0°-40°	3173.5	72.4
0°-60°	3991.0	91.1
0°-90°	4381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4381.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3886	
5°	3773	345
15°	2939	829
25°	2420	1098
35°	1449	901
45°	592	480
55°	371	338
65°	233	233
75°	116	121
85°	33	36
90°	0	



TEST NUMBER: P246700

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBM0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3886.3
1°	3897.3
2°	3892.6
3°	3869.6
4°	3830.1
5°	3773.4
6°	3702.5
7°	3617.3
8°	3526.0
9°	3428.7
10°	3334.8
11°	3244.9
12°	3153.5
13°	3077.4
14°	3005.2
15°	2939.3
16°	2877.2
17°	2819.9
18°	2766.8
19°	2713.8
20°	2662.9
21°	2613.4
22°	2570.3
23°	2526.1
24°	2474.2
25°	2419.6
26°	2357.6
27°	2287.7
28°	2209.0
29°	2121.7
30°	2021.5
31°	1916.4
32°	1806.0
33°	1688.4
34°	1570.2
35°	1448.8
37.5°	1160.9
40°	910.0
42.5°	718.6
45°	592.1
47.5°	508.4
50°	456.4
52.5°	410.8
55°	371.4
57.5°	347.3



TEST NUMBER: P246700

CATALOG NUMBER: LSR8B40D010 EC8B40840 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	306.8
62.5°	267.5
65°	233.3
67.5°	202.9
70°	169.8
72.5°	141.8
75°	115.6
77.5°	83.6
80°	68.3
82.5°	49.4
85°	33.0
87.5°	15.3
90°	0.0

(END OF REPORT)