

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: P246706

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246706
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 EC8B40850 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4466.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

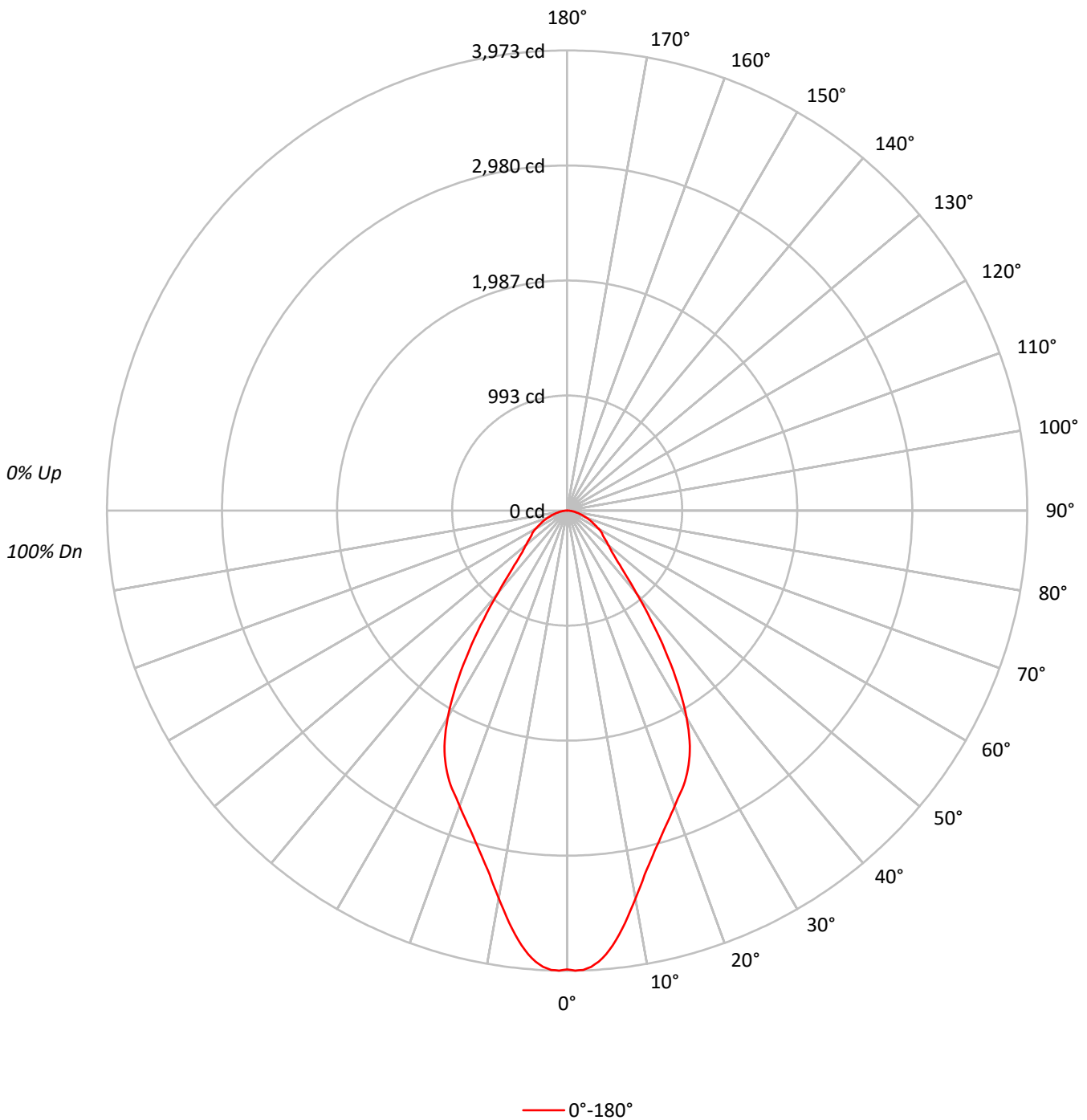
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246706

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246706

CATALOG NUMBER: LSR8B40D010 EC8B40850 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°	122164
5°	119068
10°	106445
15°	95654
20°	89080
25°	83920
30°	73375
35°	55597
40°	37340
45°	26318
50°	22322
55°	20354
60°	19285
65°	17351
70°	15607
75°	14035
80°	12360
85°	11923



TEST NUMBER: P246706

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.1	7.9
10°-20°	845.0	18.9
20°-30°	1119.8	25.1
30°-40°	918.2	20.6
40°-50°	489.1	11.0
50°-60°	344.3	7.7
60°-70°	237.4	5.3
70°-80°	123.6	2.8
80°-90°	36.6	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°	2316.8	51.9
0°-40°	3235.0	72.4
0°-60°	4068.4	91.1
0°-90°	4466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4466.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3962	
5°	3847	352
15°	2996	845
25°	2466	1120
35°	1477	918
45°	604	489
55°	379	344
65°	238	237
75°	118	124
85°	34	37
90°	0	



TEST NUMBER: P246706

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBM0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3961.7
1°	3973.0
2°	3968.2
3°	3944.6
4°	3904.4
5°	3846.6
6°	3774.3
7°	3687.5
8°	3594.4
9°	3495.3
10°	3399.5
11°	3307.8
12°	3214.7
13°	3137.1
14°	3063.5
15°	2996.3
16°	2933.0
17°	2874.6
18°	2820.5
19°	2766.4
20°	2714.6
21°	2664.1
22°	2620.1
23°	2575.1
24°	2522.2
25°	2466.5
26°	2403.3
27°	2332.1
28°	2251.8
29°	2162.9
30°	2060.7
31°	1953.6
32°	1841.1
33°	1721.1
34°	1600.6
35°	1476.9
37.5°	1183.4
40°	927.6
42.5°	732.6
45°	603.5
47.5°	518.3
50°	465.3
52.5°	418.8
55°	378.6
57.5°	354.0



TEST NUMBER: P246706

CATALOG NUMBER: LSR8B40D010 EC8B40850 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	312.7
62.5°	272.6
65°	237.8
67.5°	206.8
70°	173.1
72.5°	144.5
75°	117.8
77.5°	85.2
80°	69.6
82.5°	50.4
85°	33.7
87.5°	15.6
90°	0.0

(END OF REPORT)