

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: P246682

Luminaire Tested: **LSR8B40D010 EC8B40827 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246682
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 EC8B40827 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4137.0 lumens
Efficiency: N/A
Efficacy: 101.1 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

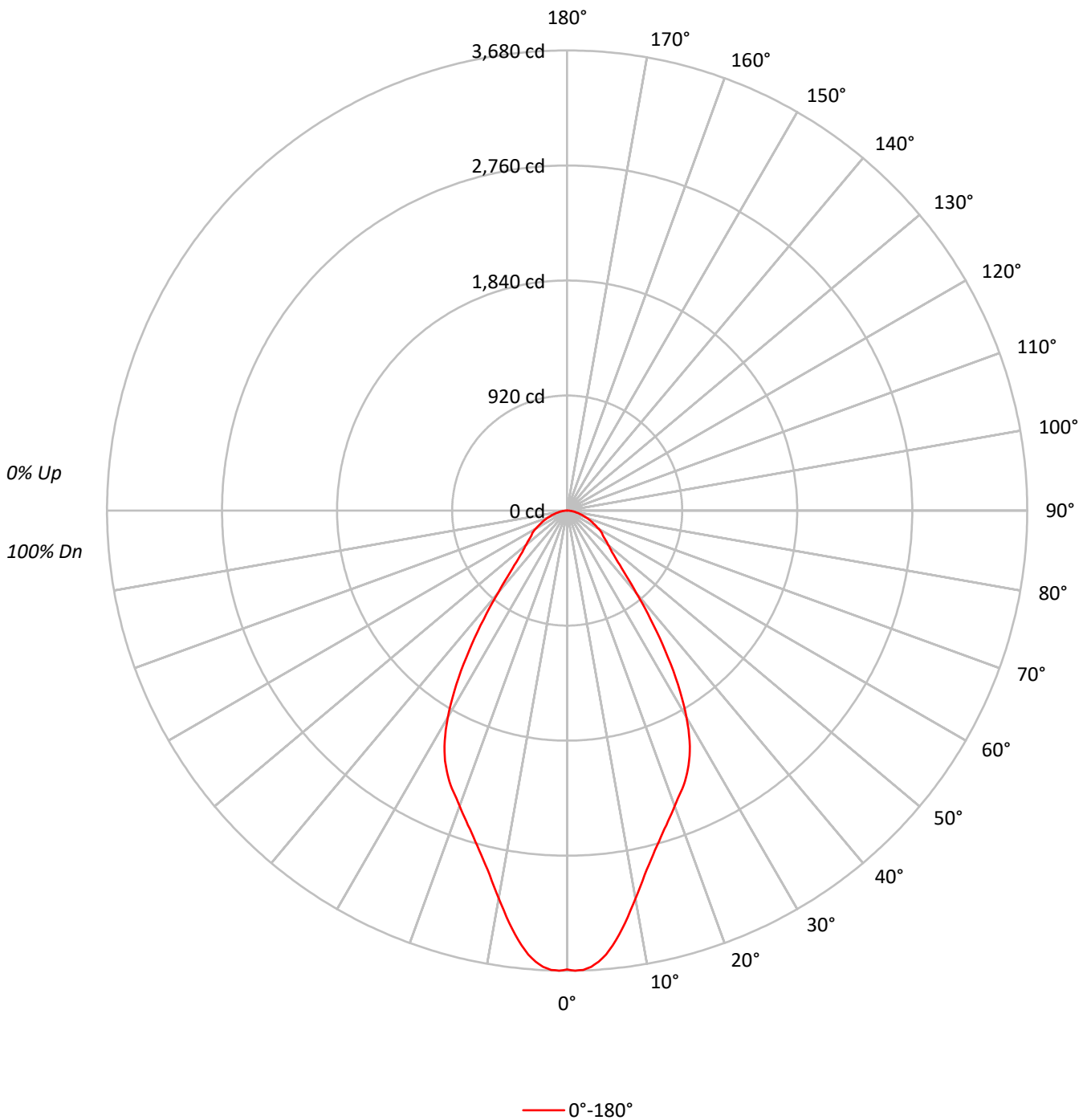
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	113166
5°	110296
10°	98602
15°	88609
20°	82517
25°	77738
30°	67970
35°	51501
40°	34590
45°	24382
50°	20676
55°	18854
60°	17867
65°	16074
70°	14462
75°	12998
80°	11454
85°	11039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	7.9
10°-20°	782.8	18.9
20°-30°	1037.3	25.1
30°-40°	850.6	20.6
40°-50°	453.1	11.0
50°-60°	318.9	7.7
60°-70°	219.9	5.3
70°-80°	114.5	2.8
80°-90°	33.9	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°	2146.1	51.9
0°-40°	2996.7	72.4
0°-60°	3768.7	91.1
0°-90°	4137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4137.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3670	
5°	3563	326
15°	2776	783
25°	2285	1037
35°	1368	851
45°	559	453
55°	351	319
65°	220	220
75°	109	114
85°	31	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3669.9
1°	3680.3
2°	3675.8
3°	3654.0
4°	3616.8
5°	3563.2
6°	3496.3
7°	3415.8
8°	3329.6
9°	3237.8
10°	3149.0
11°	3064.2
12°	2977.9
13°	2906.0
14°	2837.8
15°	2775.6
16°	2716.9
17°	2662.9
18°	2612.7
19°	2562.6
20°	2514.6
21°	2467.8
22°	2427.1
23°	2385.4
24°	2336.4
25°	2284.8
26°	2226.3
27°	2160.3
28°	2086.0
29°	2003.5
30°	1908.9
31°	1809.6
32°	1705.4
33°	1594.3
34°	1482.7
35°	1368.1
37.5°	1096.3
40°	859.3
42.5°	678.6
45°	559.1
47.5°	480.1
50°	431.0
52.5°	387.9
55°	350.7
57.5°	327.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	289.7
62.5°	252.6
65°	220.3
67.5°	191.6
70°	160.4
72.5°	133.9
75°	109.1
77.5°	78.9
80°	64.5
82.5°	46.7
85°	31.2
87.5°	14.5
90°	0.0

(END OF REPORT)