

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: P246730

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246730
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 EC8B40940 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

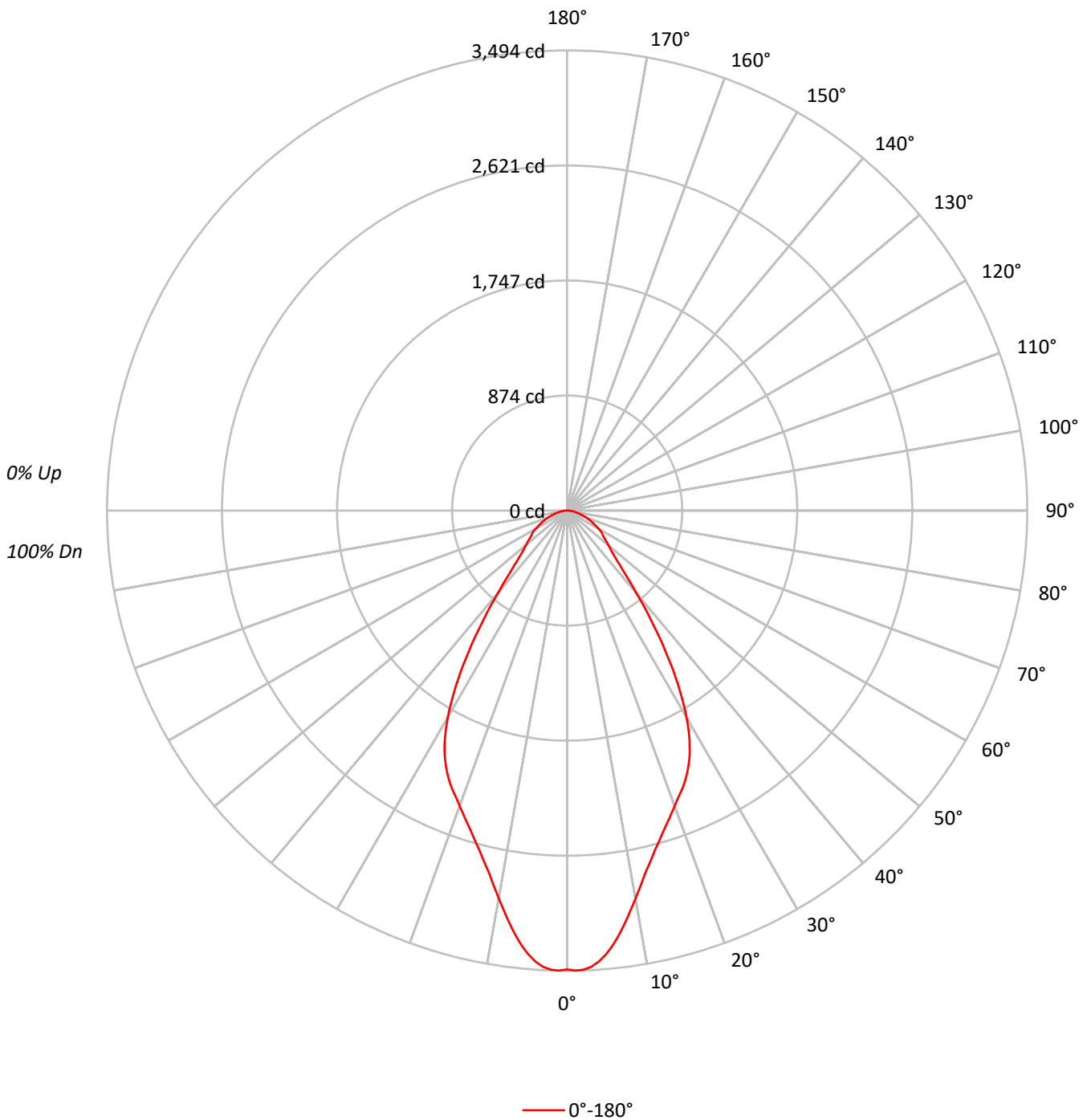
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	107421
5°	104696
10°	93598
15°	84110
20°	78330
25°	73791
30°	64519
35°	48889
40°	32835
45°	23143
50°	19626
55°	17897
60°	16960
65°	15257
70°	13722
75°	12343
80°	10868
85°	10473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	7.9
10°-20°	743.0	18.9
20°-30°	984.6	25.1
30°-40°	807.4	20.6
40°-50°	430.1	11.0
50°-60°	302.7	7.7
60°-70°	208.7	5.3
70°-80°	108.7	2.8
80°-90°	32.2	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°	2037.2	51.9
0°-40°	2844.6	72.4
0°-60°	3577.4	91.1
0°-90°	3927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3927.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3484	
5°	3382	310
15°	2635	743
25°	2169	985
35°	1299	807
45°	531	430
55°	333	303
65°	209	209
75°	104	109
85°	30	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3483.6
1°	3493.5
2°	3489.2
3°	3468.6
4°	3433.2
5°	3382.3
6°	3318.8
7°	3242.4
8°	3160.6
9°	3073.4
10°	2989.2
11°	2908.6
12°	2826.7
13°	2758.5
14°	2693.8
15°	2634.7
16°	2579.0
17°	2527.7
18°	2480.1
19°	2432.5
20°	2387.0
21°	2342.6
22°	2303.9
23°	2264.3
24°	2217.8
25°	2168.8
26°	2113.3
27°	2050.7
28°	1980.1
29°	1901.8
30°	1812.0
31°	1717.8
32°	1618.9
33°	1513.4
34°	1407.4
35°	1298.7
37.5°	1040.6
40°	815.7
42.5°	644.2
45°	530.7
47.5°	455.8
50°	409.1
52.5°	368.2
55°	332.9
57.5°	311.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	275.0
62.5°	239.7
65°	209.1
67.5°	181.8
70°	152.2
72.5°	127.1
75°	103.6
77.5°	74.9
80°	61.2
82.5°	44.3
85°	29.6
87.5°	13.7
90°	0.0

(END OF REPORT)