

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: P244234

Luminaire Tested: **LSR8B40D010 EC8B40827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4138.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

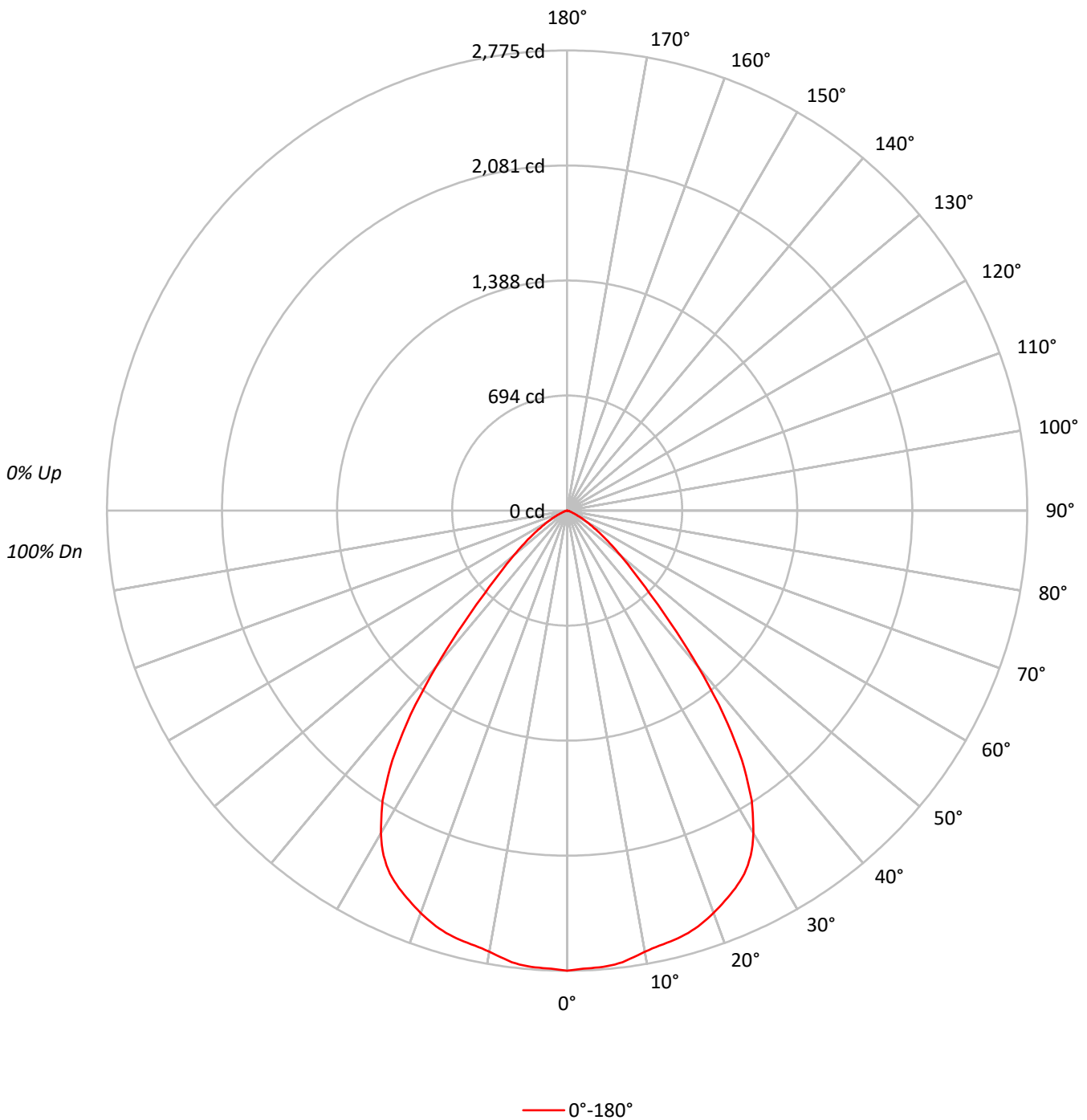
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85562
5°	85368
10°	84596
15°	84915
20°	84732
25°	83907
30°	79976
35°	69243
40°	49396
45°	30356
50°	20024
55°	13247
60°	8480
65°	4626
70°	2263
75°	1144
80°	639
85°	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.5	6.3
10°-20°	750.2	18.1
20°-30°	1129.0	27.3
30°-40°	1117.8	27.0
40°-50°	568.0	13.7
50°-60°	228.8	5.5
60°-70°	69.3	1.7
70°-80°	11.9	0.3
80°-90°	1.5	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°	2140.7	51.7
0°-40°	3258.5	78.7
0°-60°	4055.3	98.0
0°-90°	4138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2775	
5°	2758	261
15°	2660	750
25°	2466	1129
35°	1839	1118
45°	696	568
55°	246	229
65°	63	69
75°	10	12
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2774.7
1°	2768.7
2°	2763.9
3°	2762.7
4°	2761.5
5°	2757.9
6°	2753.2
7°	2743.6
8°	2729.2
9°	2716.1
10°	2701.7
11°	2689.8
12°	2681.4
13°	2675.4
14°	2668.3
15°	2659.9
16°	2649.1
17°	2636.0
18°	2620.4
19°	2602.5
20°	2582.1
21°	2560.6
22°	2539.1
23°	2516.4
24°	2492.4
25°	2466.1
26°	2437.4
27°	2400.3
28°	2357.3
29°	2305.9
30°	2246.1
32.5°	2071.5
35°	1839.4
37.5°	1550.0
40°	1227.1
42.5°	926.9
45°	696.1
47.5°	532.2
50°	417.4
52.5°	324.1
55°	246.4
57.5°	183.0
60°	137.5
62.5°	98.1
65°	63.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	39.5
70°	25.1
72.5°	15.5
75°	9.6
77.5°	6.0
80°	3.6
82.5°	2.4
85°	1.2
87.5°	0.0
90°	0.0

(END OF REPORT)