

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: P244282

Luminaire Tested: **LSR8B40D010 EC8B40940 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244282
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 EC8B40940 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3929.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

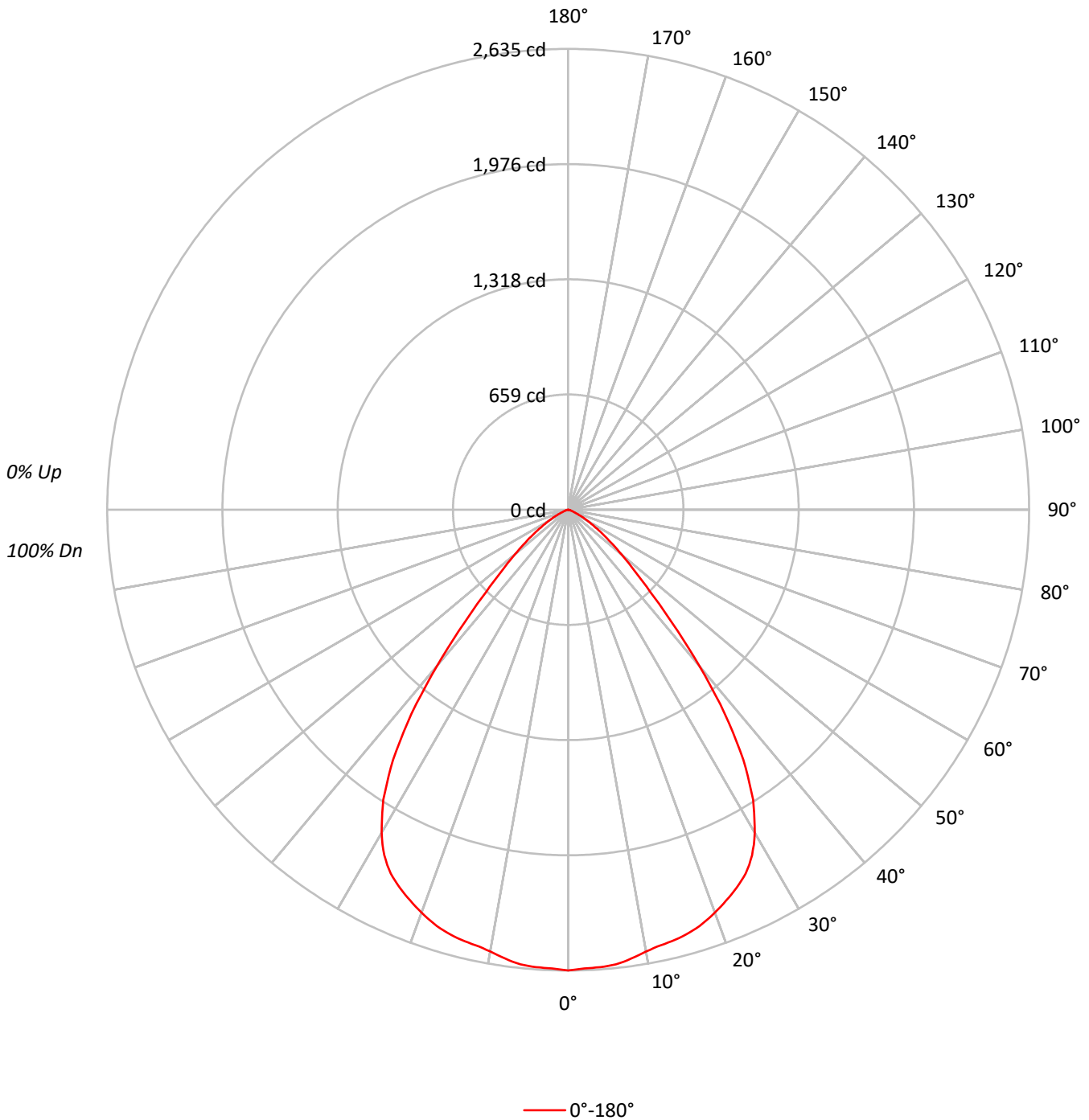
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	81241
5°	81060
10°	80325
15°	80624
20°	80453
25°	79671
30°	75935
35°	65746
40°	46900
45°	28821
50°	19012
55°	12575
60°	8054
65°	4392
70°	2146
75°	1084
80°	604
85°	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	6.3
10°-20°	712.3	18.1
20°-30°	1072.0	27.3
30°-40°	1061.3	27.0
40°-50°	539.3	13.7
50°-60°	217.2	5.5
60°-70°	65.8	1.7
70°-80°	11.3	0.3
80°-90°	1.4	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°	2032.6	51.7
0°-40°	3093.9	78.7
0°-60°	3850.4	98.0
0°-90°	3929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2635	
5°	2619	248
15°	2526	712
25°	2342	1072
35°	1746	1061
45°	661	539
55°	234	217
65°	60	66
75°	9	11
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2634.6
1°	2628.9
2°	2624.3
3°	2623.2
4°	2622.1
5°	2618.7
6°	2614.1
7°	2605.0
8°	2591.4
9°	2578.9
10°	2565.3
11°	2553.9
12°	2546.0
13°	2540.3
14°	2533.5
15°	2525.5
16°	2515.3
17°	2502.8
18°	2488.1
19°	2471.0
20°	2451.7
21°	2431.3
22°	2410.8
23°	2389.3
24°	2366.6
25°	2341.6
26°	2314.3
27°	2279.1
28°	2238.2
29°	2189.4
30°	2132.6
32.5°	1966.8
35°	1746.5
37.5°	1471.7
40°	1165.1
42.5°	880.1
45°	660.9
47.5°	505.3
50°	396.3
52.5°	307.7
55°	233.9
57.5°	173.7
60°	130.6
62.5°	93.1
65°	60.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	37.5
70°	23.8
72.5°	14.8
75°	9.1
77.5°	5.7
80°	3.4
82.5°	2.3
85°	1.1
87.5°	0.0
90°	0.0

(END OF REPORT)