

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: P246382

Luminaire Tested: **LSR8B40D010 EC8B409727 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B409727 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1762.0 lumens
Efficiency: 93.4%
Efficacy: 43.1 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

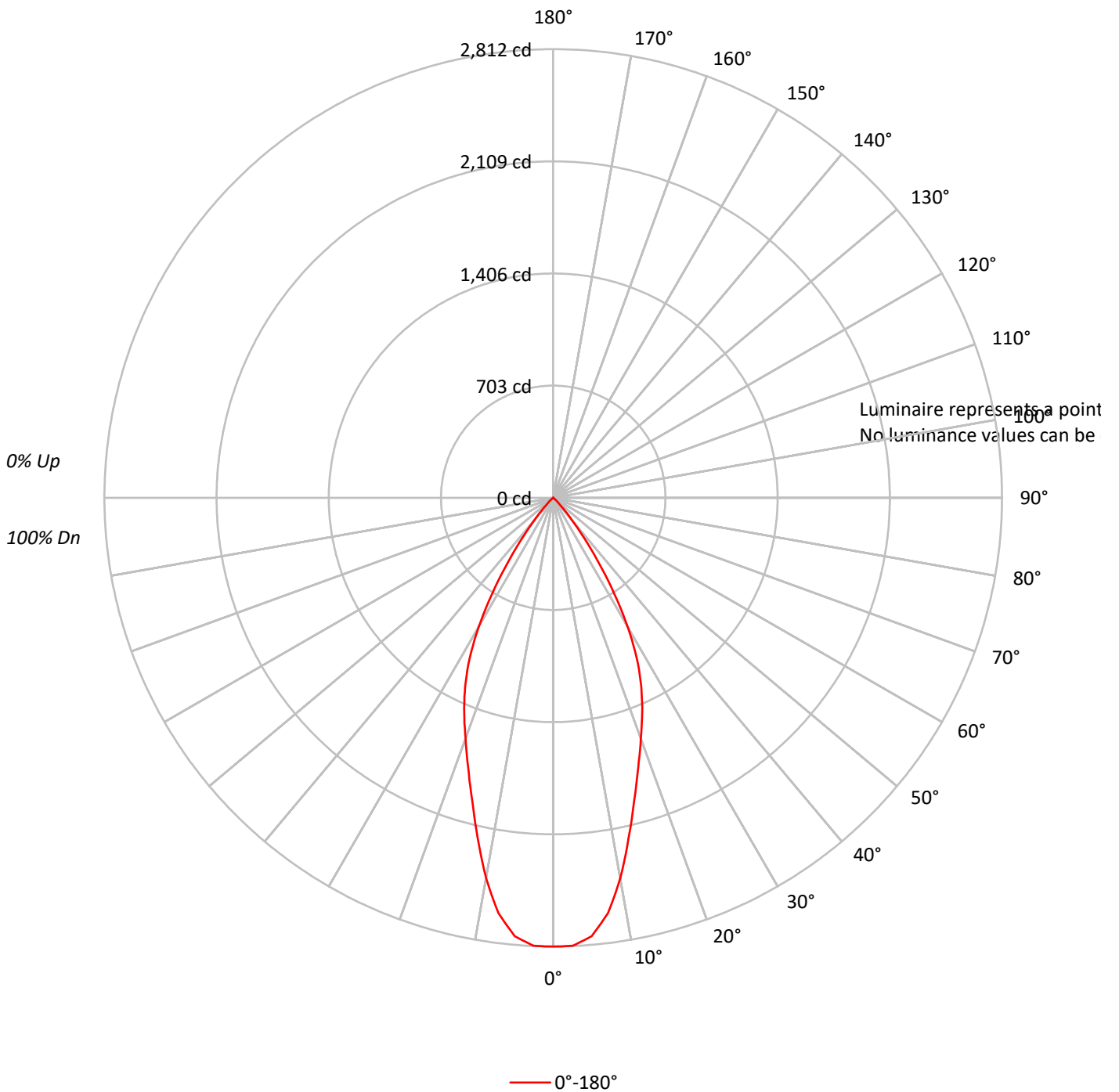
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	109	109	109	109	104	104	104		99	99	99		95	95	95	93
1	106	104	102	100	104	102	100	98	98	97	95		95	94	92		92	91	90	88
2	102	97	94	91	100	96	93	90	93	90	88		90	88	86		88	86	84	83
3	97	91	87	84	95	90	86	83	88	84	82		86	83	81		83	81	79	78
4	93	86	81	78	91	85	81	77	83	79	76		81	78	75		80	77	75	73
5	88	81	76	72	87	80	76	72	79	75	71		77	74	71		76	73	70	69
6	84	77	72	68	83	76	71	68	75	70	67		73	70	67		72	69	66	65
7	81	73	67	64	79	72	67	64	71	66	63		70	66	63		69	65	63	61
8	77	69	64	60	76	68	63	60	67	63	60		66	62	59		66	62	59	58
9	74	65	60	57	73	65	60	57	64	60	57		63	59	56		63	59	56	55
10	71	62	57	54	70	62	57	54	61	57	54		60	56	53		60	56	53	52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	252.3	14.3	13.4	0°	2812	
10°-20°	550.0	31.2	29.1	5°	2758	252
20°-30°	589.1	33.4	31.2	15°	1960	550
30°-40°	319.3	18.1	16.9	25°	1306	589
40°-50°	49.6	2.8	2.6	35°	500	319
50°-60°	1.4	0.1	0.1	45°	46	50
60°-70°	0.3	0.0	0.0	55°	0	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	1391.4	79.0	73.7	165°	0	0
0°-40°	1710.7	97.1	90.7	175°	0	0
0°-60°	1761.6	100.0	93.4	180°	0	0
0°-90°	1762.0	100.0	93.4			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	1762.0	100.0	93.4			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2812.4
2.5°	2810.6
5°	2757.5
7.5°	2625.9
10°	2421.6
12.5°	2183.7
15°	1959.9
17.5°	1770.5
20°	1605.4
22.5°	1457.1
25°	1306.0
27.5°	1135.3
30°	934.7
32.5°	712.7
35°	500.0
37.5°	320.1
40°	184.7
42.5°	98.8
45°	45.6
47.5°	24.2
50°	8.3
52.5°	0.9
55°	0.0
57.5°	0.9
60°	0.9
62.5°	0.0
65°	0.0
67.5°	0.9
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)