

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 EC8B40927 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 EC8B40927 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: 1982.2 lumens
Efficiency: 105.0%
Efficacy: 48.5 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

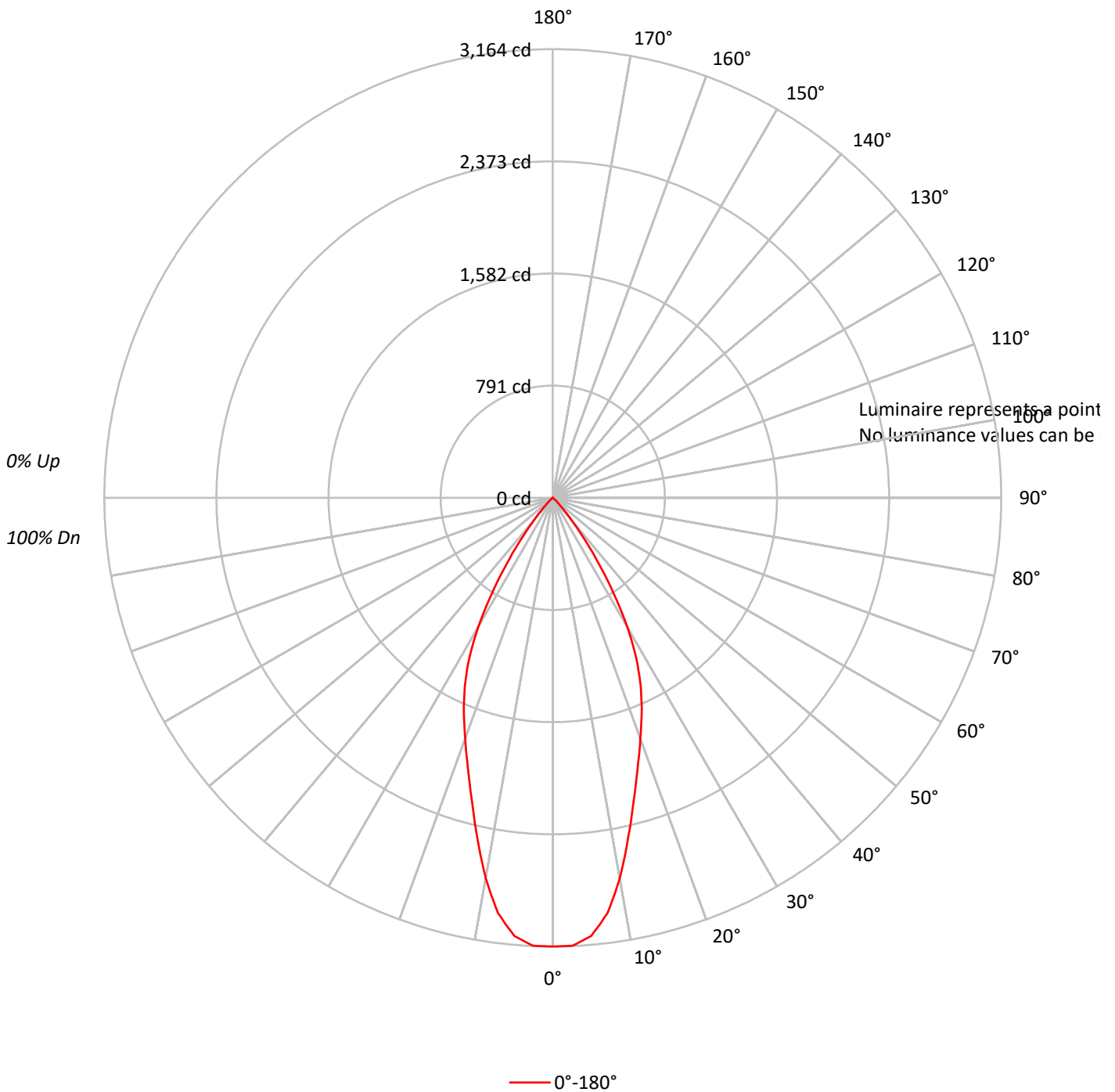
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	125	125	125	125	122	122	122	122	117	117	117	112	112	112	107	107	107	105
1	120	117	115	112	117	115	113	111	110	109	107	107	105	104	103	102	101	99
2	114	110	106	102	112	108	104	101	104	102	99	101	99	97	98	97	95	93
3	109	103	98	94	107	101	97	93	99	95	92	96	93	91	94	91	89	88
4	104	97	91	87	102	96	91	87	93	89	86	91	88	85	89	86	84	82
5	99	91	86	81	98	90	85	81	89	84	80	87	83	80	85	82	79	78
6	95	86	80	76	93	85	80	76	84	79	76	83	78	75	81	77	75	73
7	91	82	76	72	89	81	75	72	80	75	71	78	74	71	77	73	70	69
8	87	77	72	68	85	77	71	67	76	71	67	75	70	67	74	70	67	65
9	83	74	68	64	82	73	68	64	72	67	64	71	67	63	70	66	63	62
10	79	70	64	61	78	70	64	60	69	64	60	68	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	283.8	14.3	15.0	0°	3164	
10°-20°	618.7	31.2	32.8	5°	3102	284
20°-30°	662.8	33.4	35.1	15°	2205	619
30°-40°	359.2	18.1	19.0	25°	1469	663
40°-50°	55.8	2.8	3.0	35°	562	359
50°-60°	1.6	0.1	0.1	45°	51	56
60°-70°	0.4	0.0	0.0	55°	0	2
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°	1565.3	79.0	83.0	165°	0	0
0°-40°	1924.5	97.1	102.0	175°	0	0
0°-60°	1981.8	100.0	105.0	180°	0	0
0°-90°	1982.2	100.0	105.0			
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°	1982.2	100.0	105.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3164.0
2.5°	3161.9
5°	3102.2
7.5°	2954.1
10°	2724.3
12.5°	2456.7
15°	2204.9
17.5°	1991.8
20°	1806.1
22.5°	1639.2
25°	1469.2
27.5°	1277.2
30°	1051.5
32.5°	801.8
35°	562.5
37.5°	360.1
40°	207.8
42.5°	111.2
45°	51.3
47.5°	27.2
50°	9.3
52.5°	1.0
55°	0.0
57.5°	1.0
60°	1.0
62.5°	0.0
65°	0.0
67.5°	1.0
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)