

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: P246328

Luminaire Tested: **LSR8B40D010 EC8B40830 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246328
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 EC8B40830 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 2433.0 lumens
Efficiency: 128.9%
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

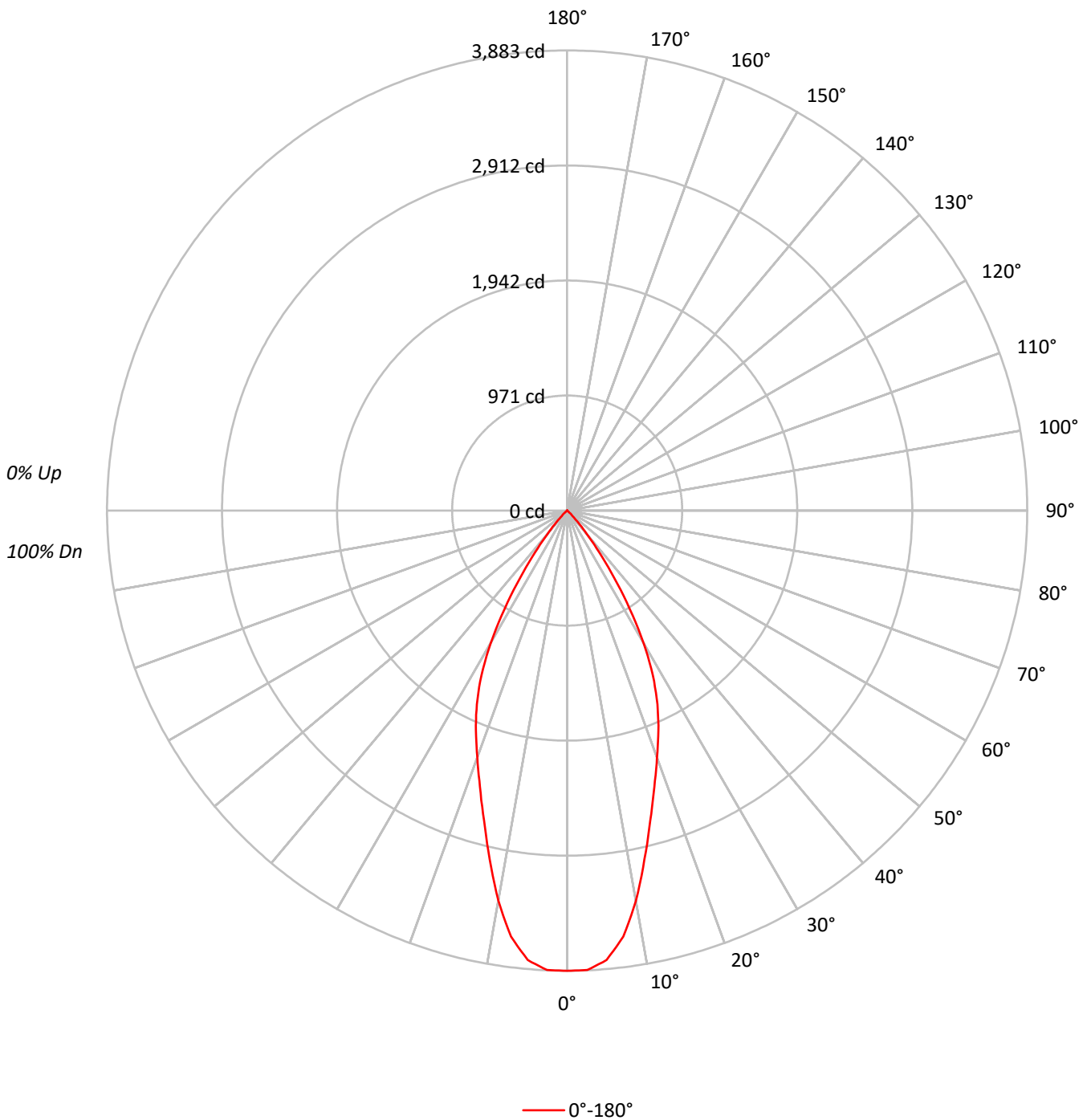
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	153	153	153	153	150	150	150	150	143	143	143	137	137	137	132	132	132	129	129	129
1	147	144	141	138	144	141	138	136	136	133	132	131	129	128	126	125	124	122	121	120
2	140	135	130	126	138	132	128	124	128	125	122	124	121	119	121	119	116	114	113	112
3	134	126	120	116	131	125	119	115	121	117	113	118	114	111	115	112	109	108	107	106
4	128	119	112	107	126	117	111	107	115	110	105	112	108	104	110	106	103	101	100	99
5	122	112	105	100	120	111	104	100	109	103	99	107	102	98	105	100	97	95	94	93
6	117	106	99	94	115	105	98	93	103	97	93	101	96	92	100	95	92	90	89	88
7	111	100	93	88	110	99	93	88	98	92	87	96	91	87	95	90	86	85	84	83
8	106	95	88	83	105	94	88	83	93	87	82	92	86	82	91	86	82	80	79	78
9	102	90	83	78	100	90	83	78	89	82	78	87	82	78	86	81	78	76	75	74
10	98	86	79	74	96	85	79	74	84	78	74	83	78	74	82	77	74	72	71	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119750
5°	117858
10°	104701
15°	86393
20°	72742
25°	61356
30°	45958
35°	25993
40°	10265
45°	2747
50°	552
55°	0
60°	80
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	348.4	14.3	18.5	0°	3883	
10°-20°	759.4	31.2	40.2	5°	3808	348
20°-30°	813.5	33.4	43.1	15°	2706	759
30°-40°	440.8	18.1	23.4	25°	1803	813
40°-50°	68.5	2.8	3.6	35°	690	441
50°-60°	2.0	0.1	0.1	45°	63	68
60°-70°	0.5	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°	1921.2	79.0	101.8	165°	0	0
0°-40°	2362.1	97.1	125.2	175°	0	0
0°-60°	2432.5	100.0	128.9	180°	0	0
0°-90°	2433.0	100.0	128.9			
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°	2433.0	100.0	128.9			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3883.4
2.5°	3880.9
5°	3807.5
7.5°	3625.9
10°	3343.8
12.5°	3015.3
15°	2706.2
17.5°	2444.7
20°	2216.7
22.5°	2011.9
25°	1803.3
27.5°	1567.6
30°	1290.7
32.5°	984.1
35°	690.5
37.5°	441.9
40°	255.0
42.5°	136.5
45°	63.0
47.5°	33.5
50°	11.5
52.5°	1.3
55°	0.0
57.5°	1.3
60°	1.3
62.5°	0.0
65°	0.0
67.5°	1.3
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)