

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: P246389

Luminaire Tested: **LSR8B50D010 EC8B509730 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246389
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: LSR8B50D010 EC8B509730 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 2332.0 lumens
Efficiency: 123.6%
Efficacy: 44.0 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

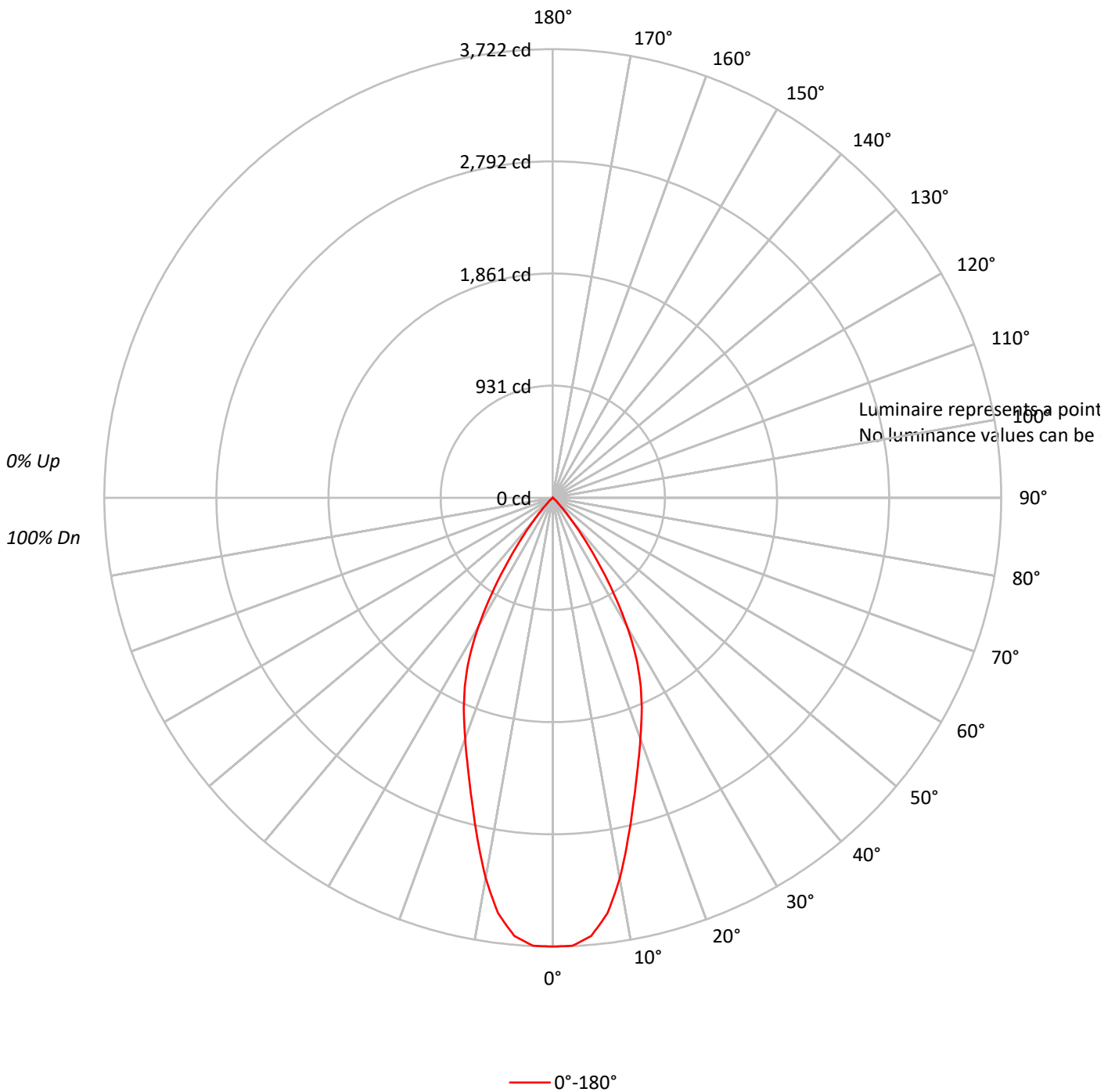
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	147	147	147	147	144	144	144	144	137	137	137	131	131	131	126	126	126	124	124	124
1	141	138	135	132	138	135	132	130	130	128	126	125	124	122	121	120	119	117	117	117
2	135	129	124	120	132	127	123	119	123	119	116	119	116	114	116	114	112	110	110	110
3	128	121	115	111	126	119	114	110	116	112	108	113	110	107	111	108	105	103	103	103
4	123	114	108	103	120	113	107	102	110	105	101	108	103	100	105	102	99	97	97	97
5	117	107	101	96	115	106	100	95	104	99	95	102	97	94	100	96	93	91	91	91
6	112	102	95	90	110	101	94	89	99	93	89	97	92	88	95	91	88	86	86	86
7	107	96	89	84	105	95	89	84	94	88	84	92	87	83	91	86	83	81	81	81
8	102	91	84	80	101	90	84	79	89	83	79	88	83	79	87	82	78	77	77	77
9	98	87	80	75	96	86	79	75	85	79	75	84	78	75	83	78	74	73	73	73
10	93	82	76	71	92	82	75	71	81	75	71	80	75	71	79	74	71	69	69	69

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	333.9	14.3	17.7	0°	3722	
10°-20°	727.9	31.2	38.6	5°	3650	334
20°-30°	779.7	33.4	41.3	15°	2594	728
30°-40°	422.6	18.1	22.4	25°	1728	780
40°-50°	65.6	2.8	3.5	35°	662	423
50°-60°	1.9	0.1	0.1	45°	60	66
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°	1841.5	79.0	97.6	165°	0	0
0°-40°	2264.1	97.1	120.0	175°	0	0
0°-60°	2331.5	100.0	123.6	180°	0	0
0°-90°	2332.0	100.0	123.6			
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°	2332.0	100.0	123.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3722.2
2.5°	3719.8
5°	3649.5
7.5°	3475.4
10°	3205.0
12.5°	2890.1
15°	2593.9
17.5°	2343.3
20°	2124.7
22.5°	1928.4
25°	1728.5
27.5°	1502.5
30°	1237.1
32.5°	943.3
35°	661.8
37.5°	423.6
40°	244.4
42.5°	130.8
45°	60.4
47.5°	32.1
50°	11.0
52.5°	1.2
55°	0.0
57.5°	1.2
60°	1.2
62.5°	0.0
65°	0.0
67.5°	1.2
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)