

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: P246383

Luminaire Tested: **LSR8B50D010 EC8B50927 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246383
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 EC8B50927 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: 2479.4 lumens
Efficiency: 131.4%
Efficacy: 46.8 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

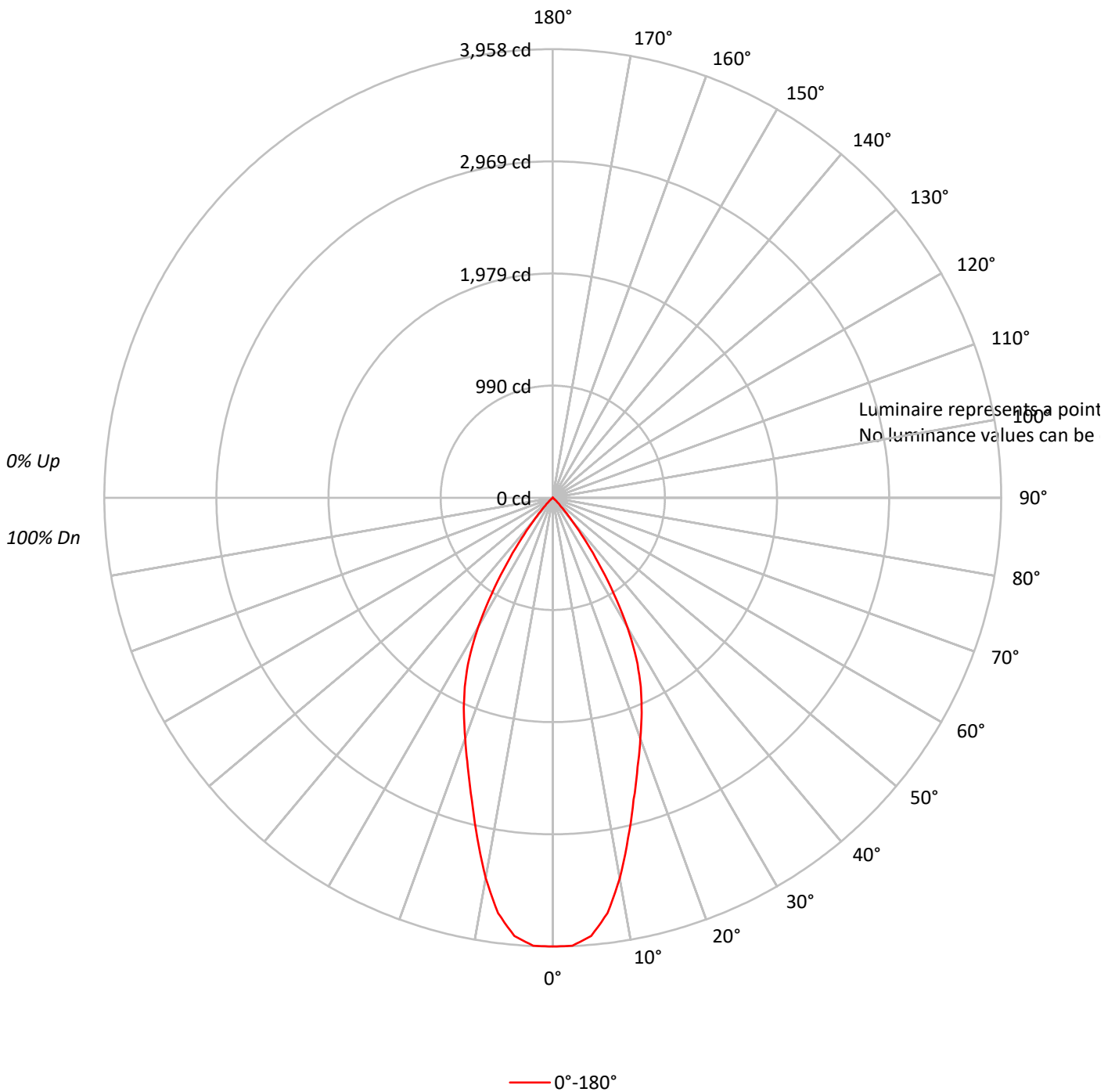
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	156	156	156	156	153	153	153	153	146	146	146	140	140	140	134	134	134	131		
1	150	146	143	141	147	143	141	138	138	136	134	133	132	130	129	128	126	124		
2	143	137	132	128	140	135	130	127	131	127	124	127	124	121	123	121	119	117		
3	137	129	123	118	134	127	121	117	124	119	115	120	117	113	117	114	112	110		
4	130	121	114	109	128	120	113	109	117	112	107	114	110	106	112	108	105	103		
5	124	114	107	102	122	113	106	101	111	105	101	109	104	100	107	102	99	97		
6	119	108	101	95	117	107	100	95	105	99	95	103	98	94	102	97	93	91		
7	113	102	95	90	112	101	94	89	100	94	89	98	93	89	97	92	88	86		
8	108	97	90	85	107	96	89	84	95	89	84	93	88	84	92	87	83	82		
9	104	92	85	80	102	91	85	80	90	84	80	89	83	79	88	83	79	77		
10	99	88	80	76	98	87	80	76	86	80	75	85	79	75	84	79	75	73		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	355.0	14.3	18.8	0°	3958	
10°-20°	773.9	31.2	41.0	5°	3880	355
20°-30°	829.0	33.4	43.9	15°	2758	774
30°-40°	449.3	18.1	23.8	25°	1838	829
40°-50°	69.7	2.8	3.7	35°	704	449
50°-60°	1.9	0.1	0.1	45°	64	70
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°	1958.0	79.0	103.8	165°	0	0
0°-40°	2407.2	97.1	127.6	175°	0	0
0°-60°	2478.9	100.0	131.4	180°	0	0
0°-90°	2479.4	100.0	131.4			
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°	2479.4	100.0	131.4			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3957.6
2.5°	3955.0
5°	3880.4
7.5°	3695.2
10°	3407.7
12.5°	3072.9
15°	2757.9
17.5°	2491.4
20°	2259.1
22.5°	2050.4
25°	1837.8
27.5°	1597.6
30°	1315.4
32.5°	1002.9
35°	703.7
37.5°	450.3
40°	259.9
42.5°	139.0
45°	64.1
47.5°	34.1
50°	11.7
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)