

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: P251371

Luminaire Tested: **LSR8B70D010 EC8B70927 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251371
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: LSR8B70D010 EC8B70927 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: 3391.9 lumens
Efficiency: 179.8%
Efficacy: 44.7 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

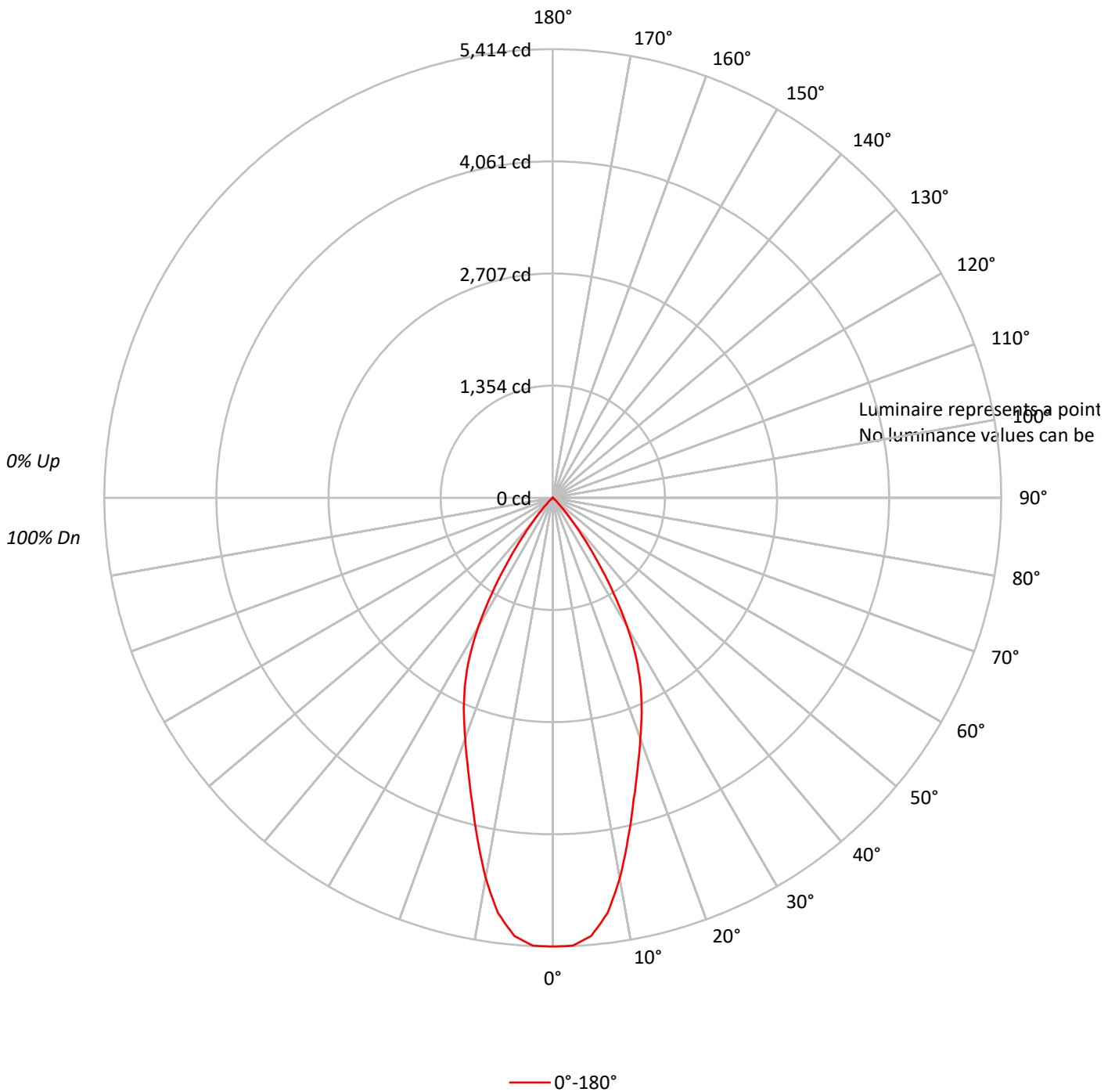
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0			
RCR																								
0	214	214	214	214	209	209	209	209	200	200	200	191	191	191	183	183	183	180	180	180	180			
1	205	200	196	192	200	196	193	189	189	186	183	182	180	178	176	174	173	170	170	170	170			
2	196	188	181	175	192	184	178	173	179	174	169	173	169	166	169	165	162	160	160	160	160			
3	187	176	168	161	183	174	166	160	169	163	157	165	159	155	161	156	153	150	150	150	150			
4	178	166	157	150	175	164	155	149	160	153	147	156	150	145	153	148	144	141	141	141	141			
5	170	156	147	139	167	155	146	139	151	144	138	149	142	136	146	140	135	133	133	133	133			
6	162	148	138	131	160	146	137	130	144	135	129	141	134	128	139	133	128	125	125	125	125			
7	155	140	130	123	153	139	129	122	136	128	122	134	127	121	132	126	121	118	118	118	118			
8	148	133	123	116	146	132	122	115	130	121	115	128	120	115	126	119	114	112	112	112	112			
9	142	126	116	109	140	125	116	109	123	115	109	122	114	108	120	113	108	106	106	106	106			
10	136	120	110	104	134	119	110	103	118	109	103	116	108	103	115	108	103	100	100	100	100			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	485.7	14.3	25.7	0°	5414	
10°-20°	1058.7	31.2	56.1	5°	5308	486
20°-30°	1134.1	33.4	60.1	15°	3773	1059
30°-40°	614.6	18.1	32.6	25°	2514	1134
40°-50°	95.5	2.8	5.1	35°	963	615
50°-60°	2.7	0.1	0.1	45°	88	95
60°-70°	0.7	0.0	0.0	55°	0	3
70°-80°	0.0	0.0	0.0	65°	0	1
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°	2678.5	79.0	141.9	165°	0	0
0°-40°	3293.0	97.1	174.5	175°	0	0
0°-60°	3391.2	100.0	179.7	180°	0	0
0°-90°	3391.9	100.0	179.8			
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°	3391.9	100.0	179.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5414.0
2.5°	5410.5
5°	5308.1
7.5°	5055.0
10°	4661.7
12.5°	4203.7
15°	3772.7
17.5°	3408.3
20°	3090.4
22.5°	2804.8
25°	2514.0
27.5°	2185.4
30°	1799.3
32.5°	1371.9
35°	962.6
37.5°	616.2
40°	355.5
42.5°	190.2
45°	87.8
47.5°	46.7
50°	16.1
52.5°	1.8
55°	0.0
57.5°	1.8
60°	1.8
62.5°	0.0
65°	0.0
67.5°	1.8
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)