

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: P251261

Luminaire Tested: **LSR8B70D010 EC8B70927 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70927 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 4771.1 lumens
Efficiency: 218.6%
Efficacy: 62.9 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

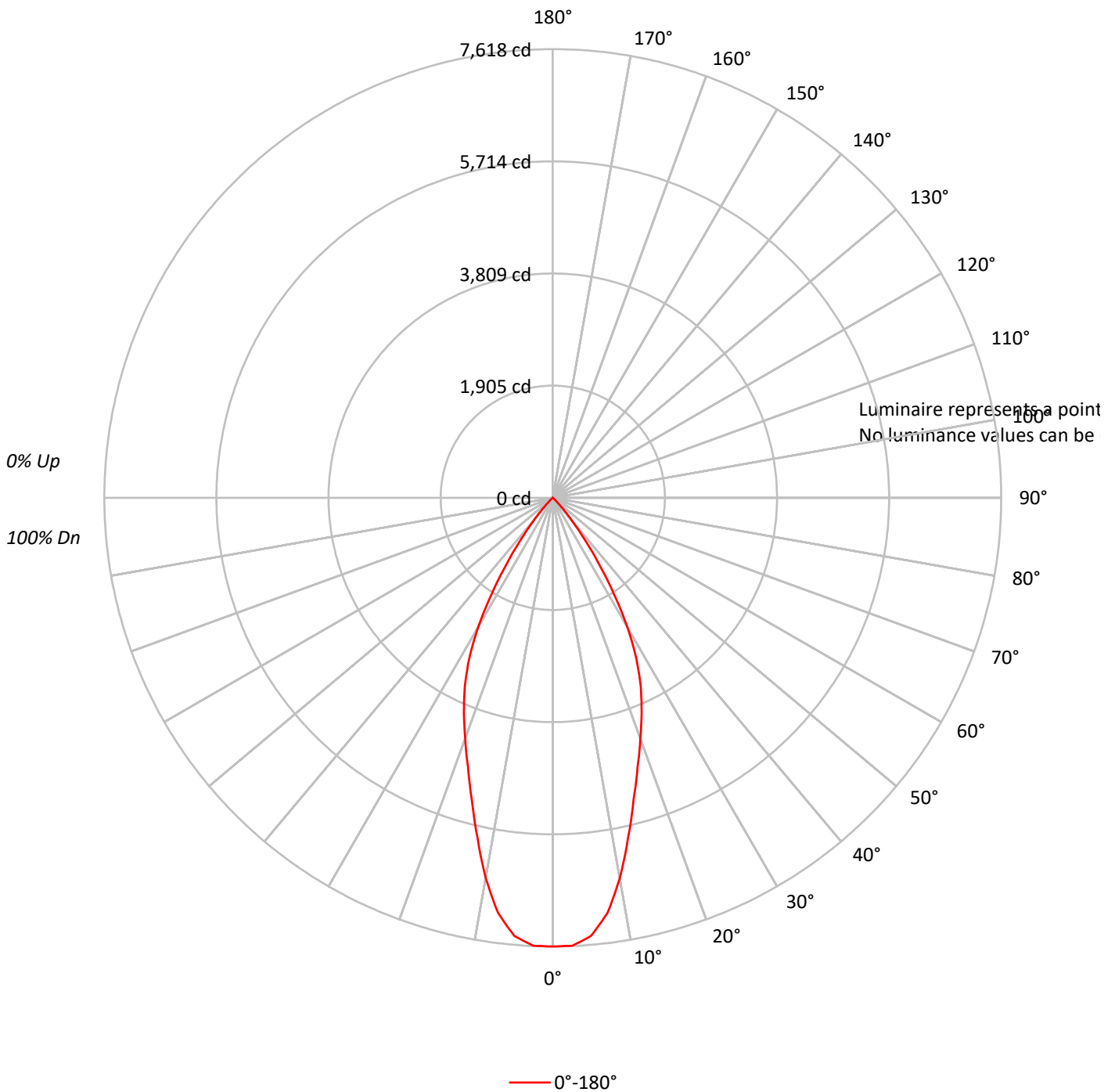
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	260	260	260	260	254	254	254	254	243	243	243	233	233	233	223	223	223	219	219	219
1	249	243	238	234	244	239	234	230	230	226	223	222	219	216	214	212	210	206	206	206
2	238	228	220	213	233	224	217	211	217	211	206	211	206	202	205	201	197	194	194	194
3	227	214	204	196	223	211	202	194	205	198	191	200	194	188	195	190	186	182	182	182
4	217	201	190	182	213	199	189	181	194	186	179	190	183	177	186	180	175	171	171	171
5	207	190	178	170	203	188	177	169	184	175	167	181	172	166	177	170	164	161	161	161
6	197	180	167	159	194	178	167	158	175	165	157	172	163	156	169	161	155	152	152	152
7	189	170	158	149	186	169	157	149	166	156	148	163	154	147	161	153	147	144	144	144
8	180	161	149	141	178	160	148	140	158	147	140	155	146	139	153	145	139	136	136	136
9	173	153	141	133	170	152	141	133	150	140	132	148	139	132	146	138	131	129	129	129
10	165	146	134	126	163	145	133	126	143	133	126	141	132	125	140	131	125	122	122	122

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	683.3	14.3	31.3	0°	7618	
10°-20°	1489.3	31.2	68.2	5°	7467	683
20°-30°	1595.3	33.4	73.1	15°	5308	1489
30°-40°	864.4	18.1	39.6	25°	3537	1595
40°-50°	134.6	2.8	6.2	35°	1354	864
50°-60°	3.5	0.1	0.2	45°	124	135
60°-70°	0.8	0.0	0.0	55°	0	4
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°	3767.8	79.0	172.6	165°	0	0
0°-40°	4632.2	97.1	212.2	175°	0	0
0°-60°	4770.3	100.0	218.5	180°	0	0
0°-90°	4771.1	100.0	218.6			
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°	4771.1	100.0	218.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7617.5
2.5°	7611.3
5°	7467.0
7.5°	7111.0
10°	6558.8
12.5°	5912.4
15°	5307.8
17.5°	4794.5
20°	4346.9
22.5°	3945.3
25°	3537.1
27.5°	3074.1
30°	2530.4
32.5°	1929.9
35°	1353.7
37.5°	866.9
40°	499.8
42.5°	266.4
45°	124.3
47.5°	68.0
50°	21.7
52.5°	2.1
55°	0.0
57.5°	2.1
60°	2.1
62.5°	0.0
65°	0.0
67.5°	2.1
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)