

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: P251255

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251255
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 EC8B70935 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 5194.0 lumens
Efficiency: 237.9%
Efficacy: 68.4 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

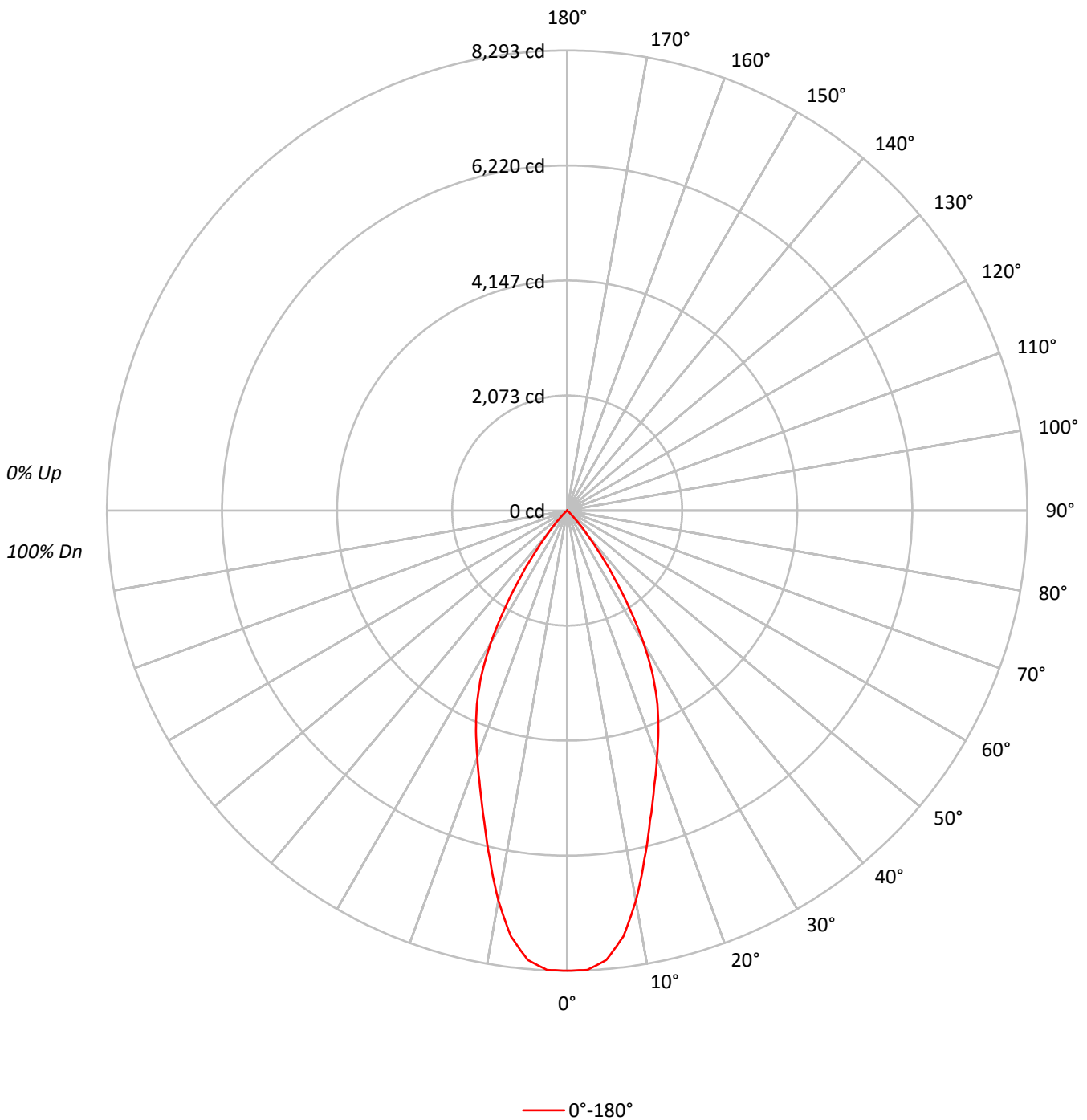
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	283	283	283	283	277	277	277	277	264	264	264	253	253	253	243	243	243	238	238	238
1	271	265	259	254	265	260	255	250	250	246	243	241	238	236	233	231	229	225	225	225
2	259	248	239	232	254	244	236	229	237	230	224	230	224	219	223	219	215	211	211	211
3	247	233	222	213	243	230	220	212	224	215	208	218	211	205	213	207	202	198	198	198
4	236	219	207	198	232	217	205	197	212	202	194	207	199	192	203	196	190	187	187	187
5	225	207	194	185	221	205	193	184	201	190	182	197	188	181	193	185	179	176	176	176
6	215	195	182	173	212	194	181	172	190	179	171	187	177	170	184	175	169	166	166	166
7	205	185	172	162	202	183	171	162	181	169	161	178	168	160	175	166	160	156	156	156
8	196	175	162	153	194	174	162	153	172	160	152	169	159	152	167	158	151	148	148	148
9	188	167	154	145	185	165	153	145	163	152	144	161	151	144	159	150	143	140	140	140
10	180	159	146	137	178	158	145	137	156	144	137	154	144	136	152	143	136	133	133	133

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	255713
5°	251617
10°	223571
15°	184464
20°	155289
25°	131017
30°	98082
35°	55476
40°	21902
45°	5905
50°	1132
55°	0
60°	142
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°	743.8	14.3	34.1	0°	8293	
10°-20°	1621.3	31.2	74.3	5°	8129	744
20°-30°	1736.7	33.4	79.6	15°	5778	1621
30°-40°	941.1	18.1	43.1	25°	3851	1737
40°-50°	146.5	2.8	6.7	35°	1474	941
50°-60°	3.8	0.1	0.2	45°	135	146
60°-70°	0.9	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°	4101.7	79.0	187.9	165°	0	0
0°-40°	5042.8	97.1	231.0	175°	0	0
0°-60°	5193.1	100.0	237.9	180°	0	0
0°-90°	5194.0	100.0	237.9			
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°	5194.0	100.0	237.9			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8292.6
2.5°	8285.9
5°	8128.7
7.5°	7741.2
10°	7140.1
12.5°	6436.4
15°	5778.2
17.5°	5219.5
20°	4732.2
22.5°	4294.9
25°	3850.7
27.5°	3346.5
30°	2754.6
32.5°	2101.0
35°	1473.7
37.5°	943.8
40°	544.1
42.5°	290.0
45°	135.4
47.5°	73.9
50°	23.6
52.5°	2.3
55°	0.0
57.5°	2.3
60°	2.3
62.5°	0.0
65°	0.0
67.5°	2.3
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)