

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: P251351

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251351
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 EC8B70827 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 4062.0 lumens
Efficiency: 215.3%
Efficacy: 53.5 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

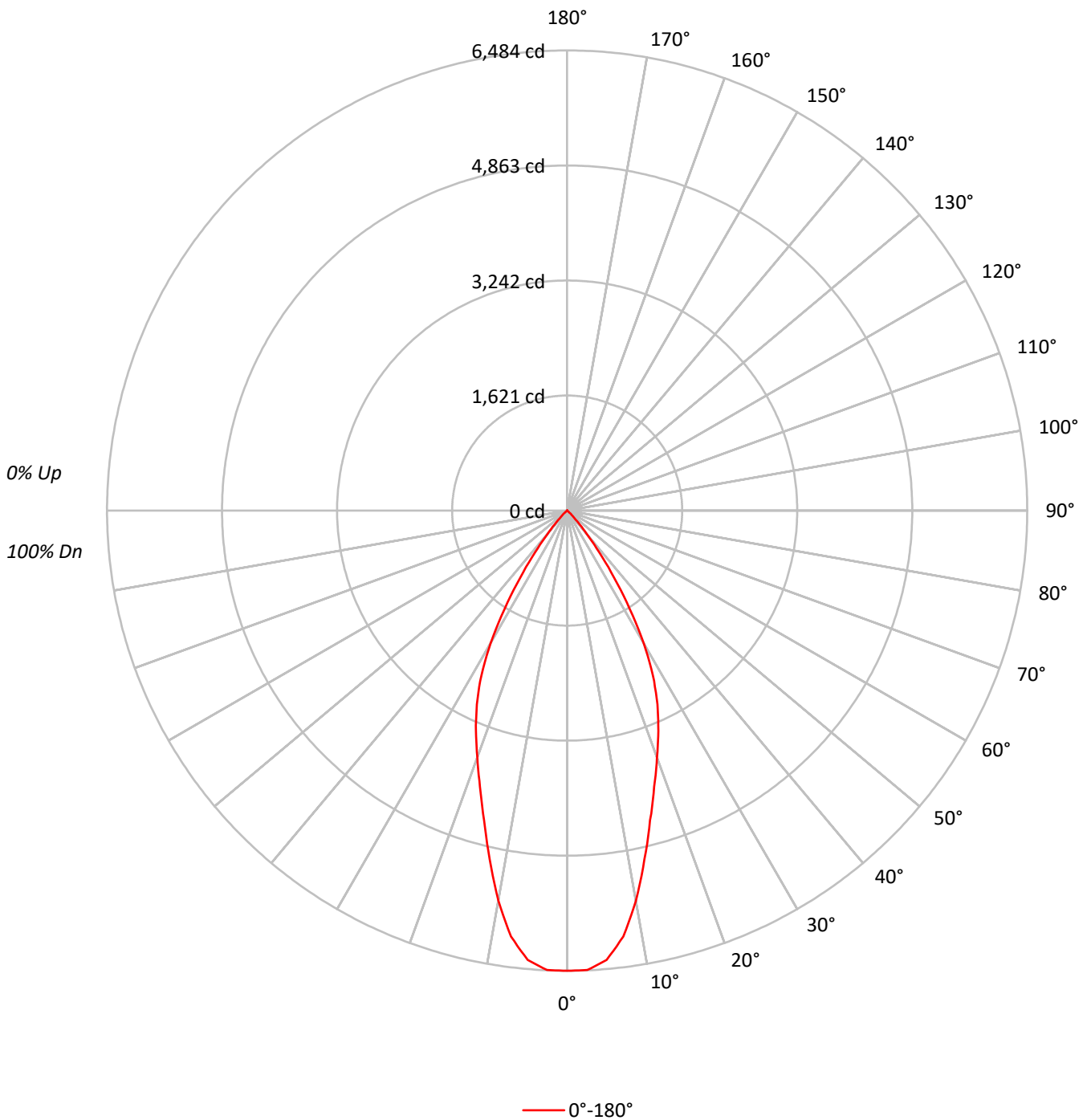
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20	20	20	20	20	20	20											
RC	80	70	50	30	10	0												
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
RCR																		
0	256	256	256	256	250	250	250	250	239	239	239	229	229	229	220	220	220	215
1	245	240	235	230	240	235	231	227	226	223	220	218	216	213	211	209	207	203
2	234	225	217	210	230	221	214	207	214	208	203	208	203	199	202	198	194	191
3	224	211	201	193	219	208	199	192	202	195	189	197	191	186	192	187	183	180
4	213	198	187	179	210	196	186	178	192	183	176	187	180	174	183	177	172	169
5	204	187	176	167	200	185	174	166	181	172	165	178	170	163	175	168	162	159
6	195	177	165	156	191	175	164	156	172	162	155	169	160	154	166	159	153	150
7	186	167	155	147	183	166	155	147	163	153	146	161	152	145	158	150	144	142
8	178	159	147	139	175	158	146	138	155	145	138	153	144	137	151	143	137	134
9	170	151	139	131	168	150	138	131	148	138	130	146	137	130	144	136	129	127
10	163	143	132	124	161	143	131	124	141	131	124	139	130	123	138	129	123	120

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	199930
5°	196772
10°	174802
15°	144236
20°	121446
25°	102436
30°	76729
35°	43396
40°	17136
45°	4583
50°	921
55°	0
60°	130
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°	581.7	14.3	30.8	0°	6484	
10°-20°	1267.8	31.2	67.2	5°	6357	582
20°-30°	1358.1	33.4	72.0	15°	4518	1268
30°-40°	736.0	18.1	39.0	25°	3011	1358
40°-50°	114.3	2.8	6.1	35°	1153	736
50°-60°	3.2	0.1	0.2	45°	105	114
60°-70°	0.8	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°	3207.6	79.0	170.0	165°	0	0
0°-40°	3943.6	97.1	209.0	175°	0	0
0°-60°	4061.2	100.0	215.2	180°	0	0
0°-90°	4062.0	100.0	215.3			
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°	4062.0	100.0	215.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6483.6
2.5°	6479.4
5°	6356.9
7.5°	6053.6
10°	5582.6
12.5°	5034.2
15°	4518.1
17.5°	4081.6
20°	3700.9
22.5°	3359.0
25°	3010.7
27.5°	2617.2
30°	2154.9
32.5°	1643.0
35°	1152.8
37.5°	737.8
40°	425.7
42.5°	227.9
45°	105.1
47.5°	55.9
50°	19.2
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)