

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: P251363

Luminaire Tested: **LSR8B70D010 EC8B709730 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251363
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 EC8B709730 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3577.0 lumens
Efficiency: 189.6%
Efficacy: 47.1 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

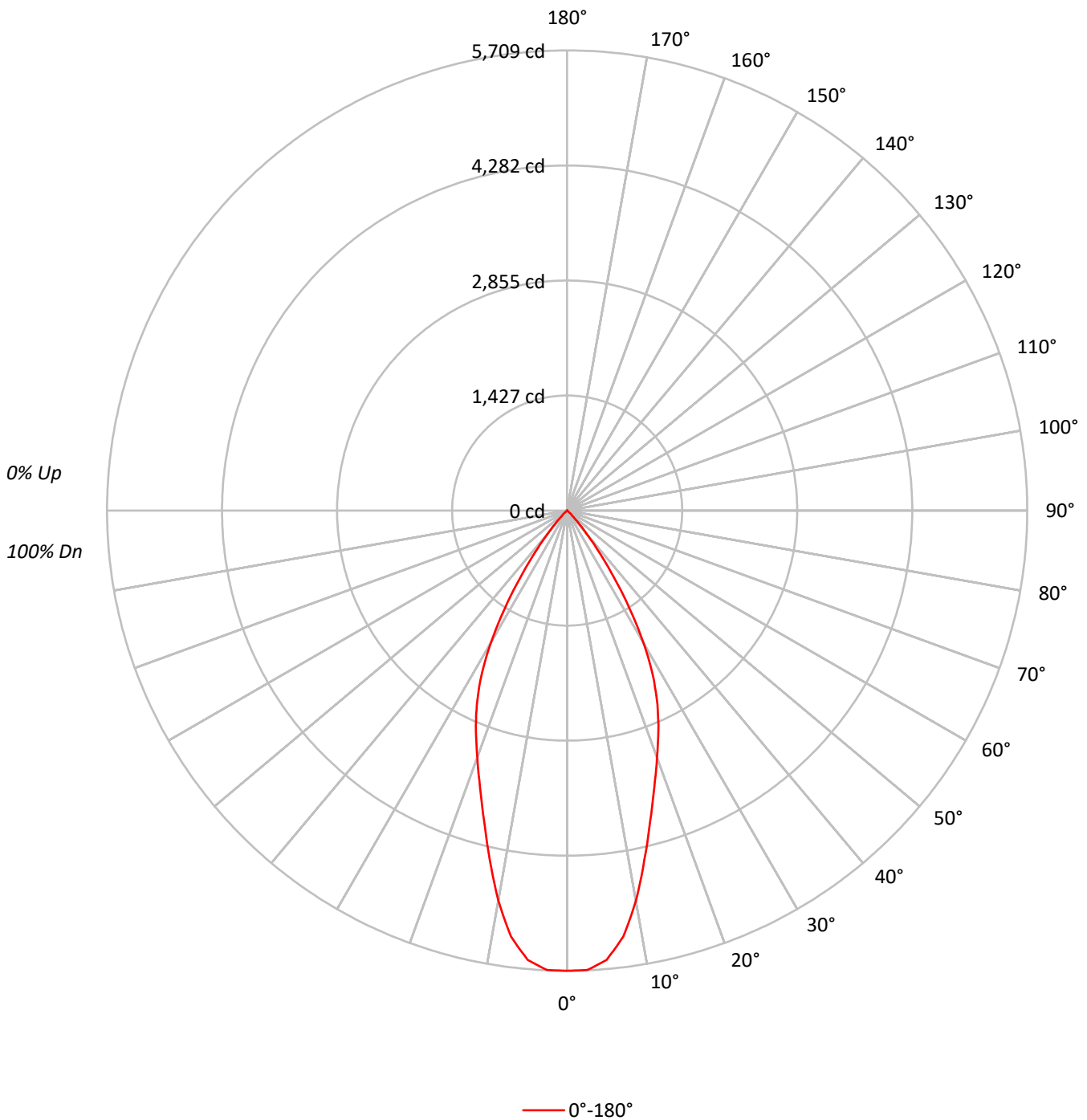
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	226	226	226	226	220	220	220	220	211	211	211	202	202	202	193	193	193	190	190	190
1	216	211	207	203	211	207	203	200	199	196	193	192	190	188	186	184	182	179	179	179
2	206	198	191	185	202	195	188	183	188	183	179	183	179	175	178	174	171	168	168	168
3	197	186	177	170	193	183	175	169	178	172	166	174	168	163	170	165	161	158	158	158
4	188	175	165	158	185	173	164	157	169	161	155	165	158	153	161	156	151	149	149	149
5	179	165	155	147	176	163	154	146	160	151	145	157	149	144	154	148	143	140	140	140
6	171	156	145	138	169	154	144	137	151	143	136	149	141	135	146	140	135	132	132	132
7	164	147	137	129	161	146	136	129	144	135	128	142	134	128	140	132	127	125	125	125
8	156	140	129	122	154	139	129	122	137	128	121	135	127	121	133	126	120	118	118	118
9	150	133	122	115	148	132	122	115	130	121	115	128	120	114	127	119	114	112	112	112
10	143	126	116	109	142	126	116	109	124	115	109	123	114	109	121	114	108	106	106	106

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	176057
5°	173275
10°	153933
15°	127016
20°	106948
25°	90208
30°	67567
35°	38213
40°	15091
45°	4038
50°	811
55°	0
60°	117
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°	512.2	14.3	27.1	0°	5709	
10°-20°	1116.5	31.2	59.2	5°	5598	512
20°-30°	1196.0	33.4	63.4	15°	3979	1116
30°-40°	648.1	18.1	34.3	25°	2651	1196
40°-50°	100.7	2.8	5.3	35°	1015	648
50°-60°	2.9	0.1	0.2	45°	93	101
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°	2824.7	79.0	149.7	165°	0	0
0°-40°	3472.8	97.1	184.0	175°	0	0
0°-60°	3576.3	100.0	189.5	180°	0	0
0°-90°	3577.0	100.0	189.6			
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°	3577.0	100.0	189.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5709.4
2.5°	5705.7
5°	5597.8
7.5°	5330.8
10°	4916.1
12.5°	4433.1
15°	3978.7
17.5°	3594.3
20°	3259.1
22.5°	2958.0
25°	2651.3
27.5°	2304.7
30°	1897.6
32.5°	1446.8
35°	1015.1
37.5°	649.7
40°	374.9
42.5°	200.7
45°	92.6
47.5°	49.2
50°	16.9
52.5°	1.9
55°	0.0
57.5°	1.9
60°	1.9
62.5°	0.0
65°	0.0
67.5°	1.9
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)