

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: P251353

Luminaire Tested: **LSR8B70D010 EC8B70830 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251353
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 EC8B70830 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 4164.1 lumens
Efficiency: 220.7%
Efficacy: 54.9 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

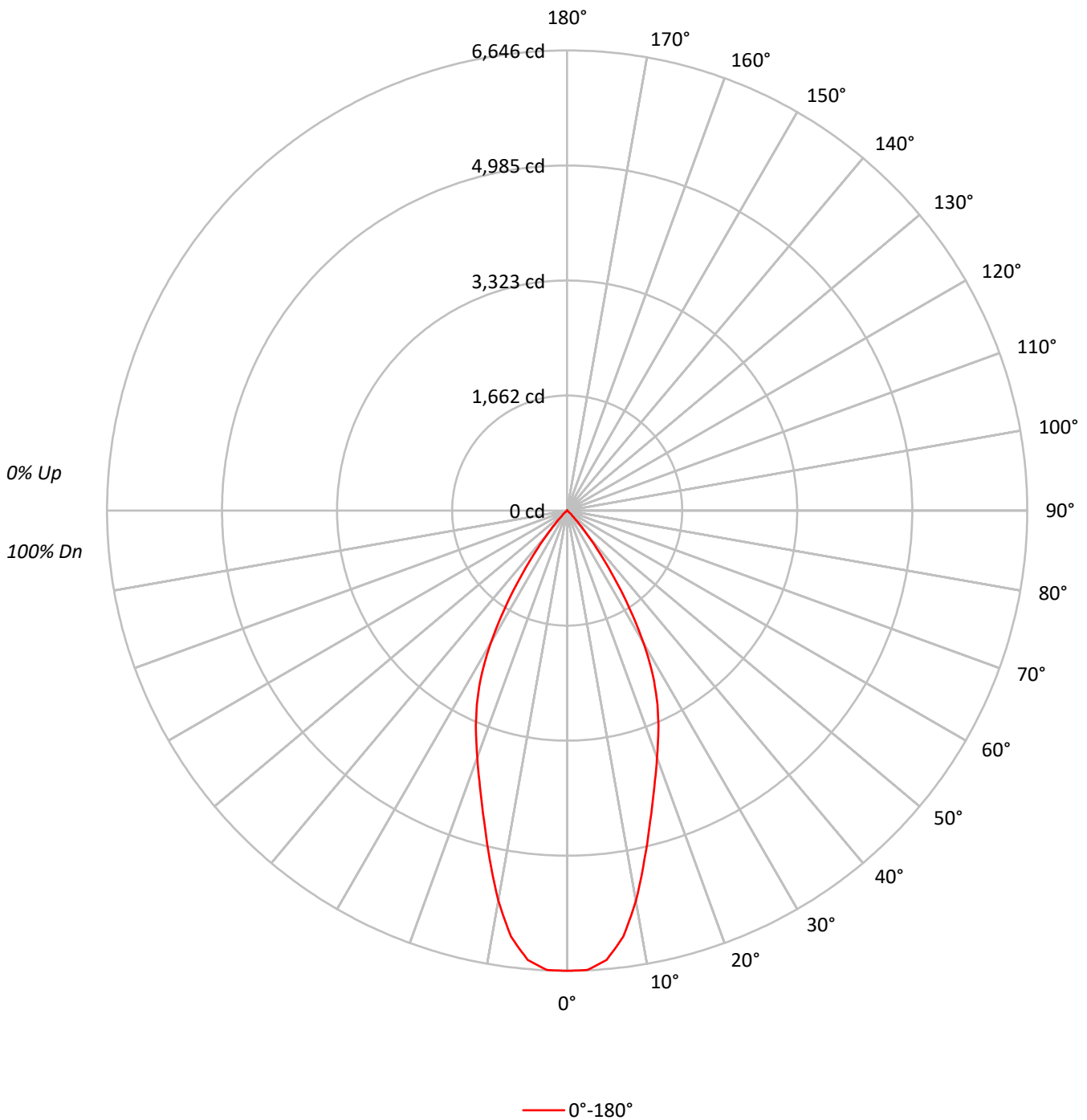
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	263	263	263	263	257	257	257	257	245	245	245	235	235	235	225	225	225	221			
1	251	246	241	236	246	241	236	232	232	228	225	224	221	218	216	214	212	208			
2	240	230	222	215	235	226	219	213	219	213	208	213	208	204	207	203	199	196			
3	229	216	206	198	225	213	204	196	207	200	193	202	196	190	197	192	187	184			
4	219	203	192	184	215	201	191	182	196	187	180	192	184	178	188	182	176	173			
5	209	192	180	171	205	190	179	170	186	176	169	182	174	167	179	172	166	163			
6	199	181	169	160	196	180	168	160	176	166	159	173	164	158	171	163	157	154			
7	190	172	159	151	188	170	159	150	167	157	150	165	156	149	162	154	148	145			
8	182	163	150	142	180	161	150	142	159	149	141	157	147	141	155	146	140	137			
9	174	155	142	134	172	153	142	134	151	141	134	150	140	133	148	139	133	130			
10	167	147	135	127	165	146	135	127	144	134	127	143	133	126	141	132	126	123			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	204950
5°	201712
10°	179192
15°	147860
20°	124498
25°	105009
30°	78655
35°	44484
40°	17567
45°	4701
50°	945
55°	0
60°	136
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°	596.3	14.3	31.6	0°	6646
10°-20°	1299.7	31.2	68.9	5°	6516
20°-30°	1392.3	33.4	73.8	15°	4632
30°-40°	754.5	18.1	40.0	25°	3086
40°-50°	117.2	2.8	6.2	35°	1182
50°-60°	3.4	0.1	0.2	45°	108
60°-70°	0.8	0.0	0.0	55°	0
70°-80°	0.0	0.0	0.0	65°	0
80°-90°	0.0	0.0	0.0	75°	0
90°-100°	0.0	0.0	0.0	85°	0
100°-110°	0.0	0.0	0.0	90°	0
110°-120°	0.0	0.0	0.0	95°	0
120°-130°	0.0	0.0	0.0	105°	0
130°-140°	0.0	0.0	0.0	115°	0
140°-150°	0.0	0.0	0.0	125°	0
150°-160°	0.0	0.0	0.0	135°	0
160°-170°	0.0	0.0	0.0	145°	0
170°-180°	0.0	0.0	0.0	155°	0
0°-30°	3288.2	79.0	174.3	165°	0
0°-40°	4042.7	97.1	214.2	175°	0
0°-60°	4163.2	100.0	220.6	180°	0
0°-90°	4164.1	100.0	220.7		
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°	4164.1	100.0	220.7		



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6646.4
2.5°	6642.1
5°	6516.5
7.5°	6205.7
10°	5722.8
12.5°	5160.6
15°	4631.6
17.5°	4184.1
20°	3793.9
22.5°	3443.4
25°	3086.3
27.5°	2682.9
30°	2209.0
32.5°	1684.3
35°	1181.7
37.5°	756.4
40°	436.4
42.5°	233.6
45°	107.8
47.5°	57.3
50°	19.7
52.5°	2.2
55°	0.0
57.5°	2.2
60°	2.2
62.5°	0.0
65°	0.0
67.5°	2.2
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)