

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: P251243

Luminaire Tested: **LD8B70D010 ER8B70830 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251243
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: LD8B70D010 ER8B70830 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 5857.0 lumens
Efficiency: 268.3%
Efficacy: 77.2 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

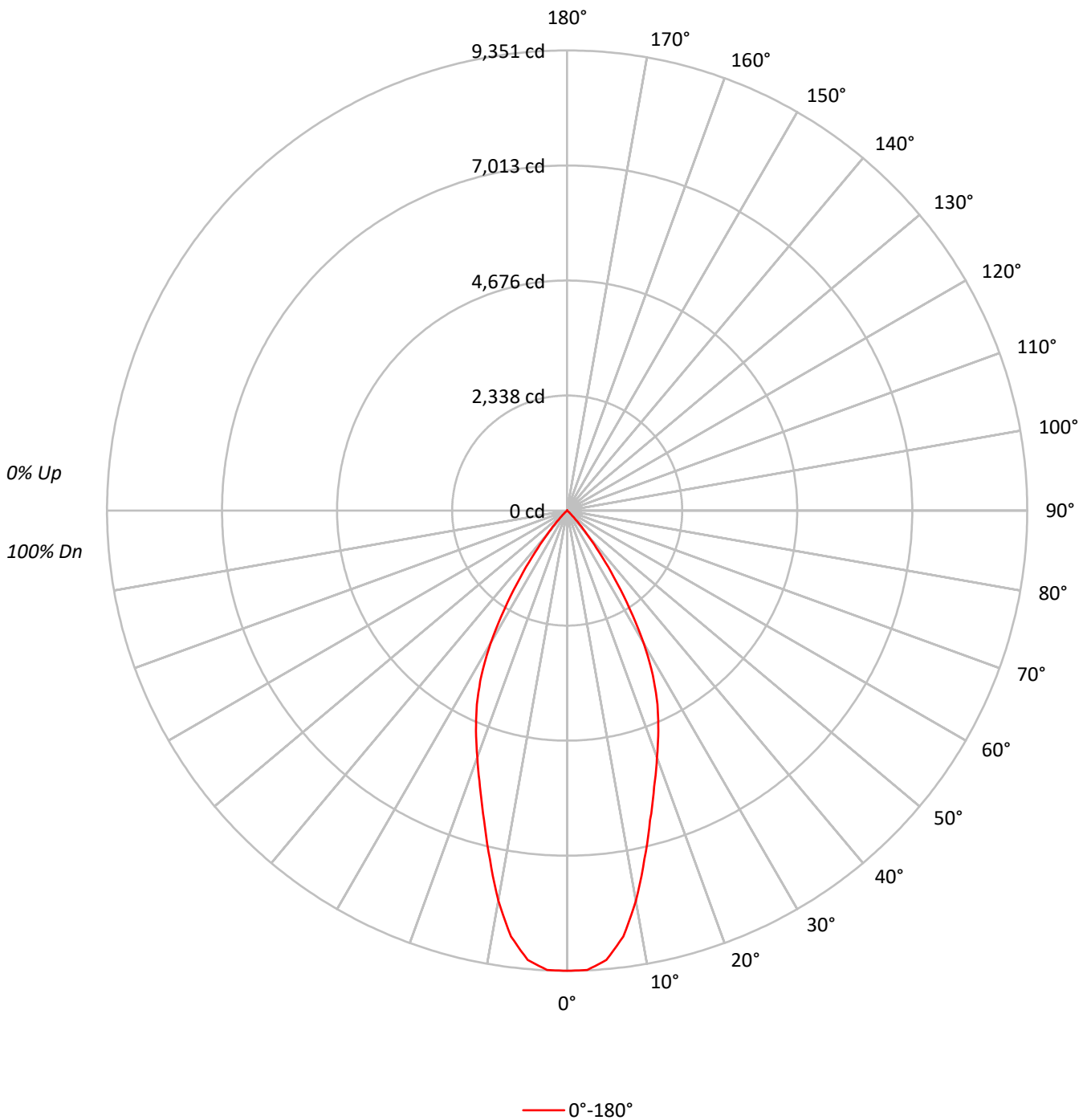
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	319	319	319	319	312	312	312	312	298	298	298	285	285	285	274	274	274	268			
1	306	299	293	287	299	293	287	282	282	278	274	272	269	266	263	260	258	253			
2	292	280	270	261	286	275	266	259	267	259	253	259	253	248	252	247	242	238			
3	279	263	251	241	274	259	248	239	252	243	235	246	238	231	240	233	228	224			
4	266	247	234	223	261	244	232	222	239	228	219	233	224	217	229	221	214	210			
5	254	233	219	208	250	231	217	207	226	214	205	222	212	204	218	209	202	198			
6	242	220	206	195	239	218	204	194	214	202	193	211	200	192	207	198	190	187			
7	232	209	194	183	228	207	193	183	204	191	182	200	189	181	198	188	180	176			
8	221	198	183	173	218	196	182	172	193	181	172	191	179	171	188	178	170	167			
9	212	188	173	163	209	187	173	163	184	171	162	182	170	162	180	169	161	158			
10	203	179	164	155	200	178	164	154	176	163	154	174	162	154	172	161	153	150			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	288357
5°	283735
10°	252109
15°	208011
20°	175112
25°	147739
30°	110602
35°	62557
40°	24700
45°	6659
50°	1276
55°	0
60°	160
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°	838.8	14.3	38.4	0°	9351	
10°-20°	1828.2	31.2	83.7	5°	9166	839
20°-30°	1958.3	33.4	89.7	15°	6516	1828
30°-40°	1061.2	18.1	48.6	25°	4342	1958
40°-50°	165.2	2.8	7.6	35°	1662	1061
50°-60°	4.3	0.1	0.2	45°	153	165
60°-70°	1.0	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°	4625.3	79.0	211.9	165°	0	0
0°-40°	5686.5	97.1	260.5	175°	0	0
0°-60°	5856.0	100.0	268.3	180°	0	0
0°-90°	5857.0	100.0	268.3			
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°	5857.0	100.0	268.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9351.2
2.5°	9343.6
5°	9166.3
7.5°	8729.4
10°	8051.5
12.5°	7258.0
15°	6515.8
17.5°	5885.8
20°	5336.3
22.5°	4843.2
25°	4342.2
27.5°	3773.6
30°	3106.2
32.5°	2369.2
35°	1661.8
37.5°	1064.3
40°	613.6
42.5°	327.0
45°	152.7
47.5°	83.4
50°	26.6
52.5°	2.6
55°	0.0
57.5°	2.6
60°	2.6
62.5°	0.0
65°	0.0
67.5°	2.6
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)