

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: P251245

Luminaire Tested: **LD8B70D010 ER8B70835 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251245
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 ER8B70835 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 6091.0 lumens
Efficiency: 279.0%
Efficacy: 80.3 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

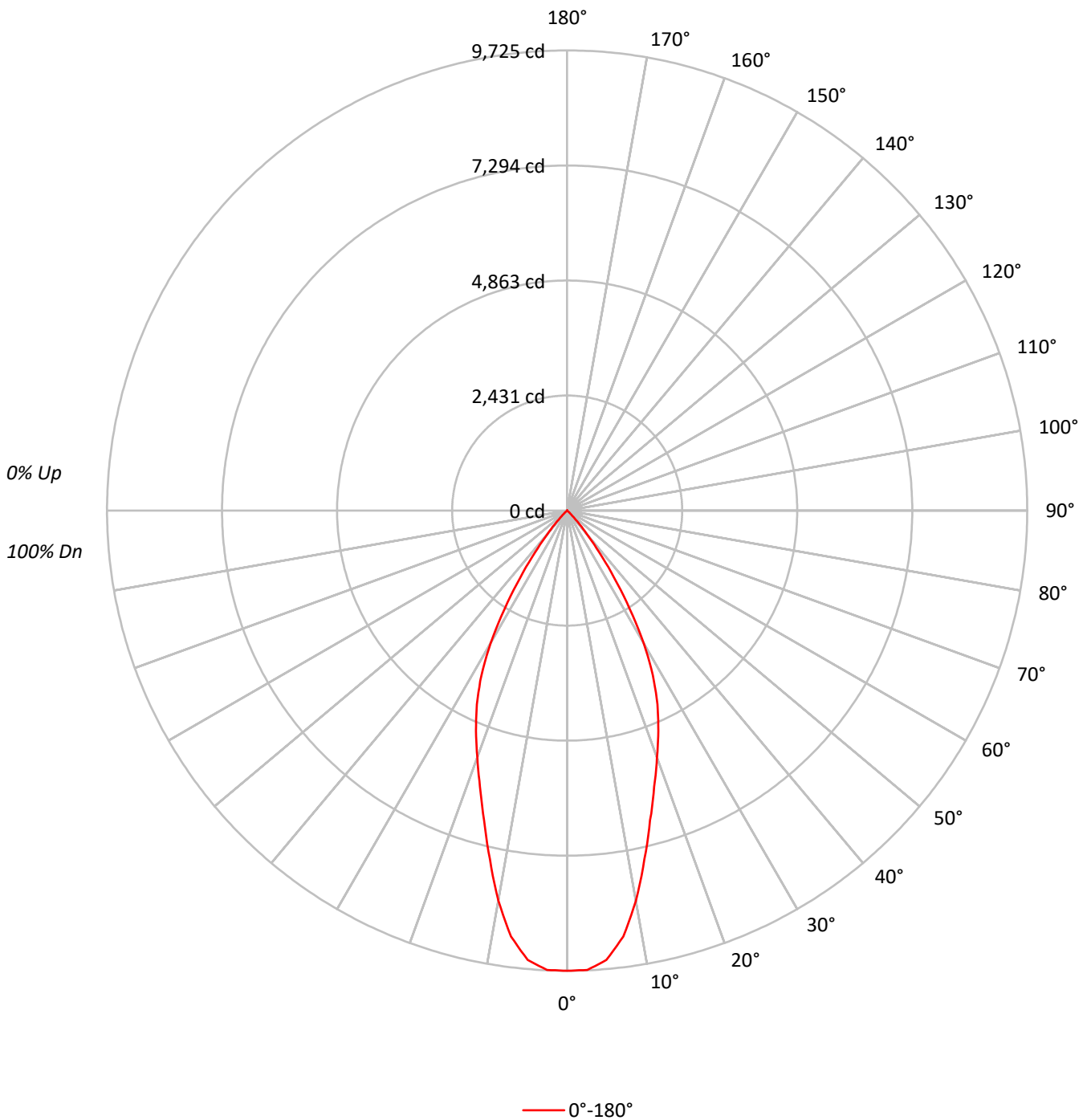
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	332	332	332	332	324	324	324	324	310	310	310	297	297	297	285	285	285	279	279	279	279
1	318	311	304	298	311	305	299	294	293	289	285	283	280	276	274	271	268	263	263	263	263
2	304	291	281	272	298	286	277	269	277	270	263	269	263	257	262	257	252	248	248	248	248
3	290	273	261	250	284	270	258	248	262	252	244	256	247	241	249	243	237	233	233	233	233
4	277	257	243	232	272	254	241	231	248	237	228	243	233	225	238	230	223	219	219	219	219
5	264	243	228	216	260	240	226	215	235	223	214	231	220	212	226	217	210	206	206	206	206
6	252	229	214	203	248	227	213	202	223	210	201	219	208	199	216	206	198	194	194	194	194
7	241	217	201	191	237	215	200	190	212	199	189	208	197	188	205	195	187	183	183	183	183
8	230	206	190	180	227	204	189	179	201	188	179	198	187	178	196	185	177	174	174	174	174
9	220	195	180	170	217	194	179	170	192	178	169	189	177	168	187	176	168	164	164	164	164
10	211	186	171	161	208	185	170	161	183	169	160	180	168	160	179	167	159	156	156	156	156

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	299877
5°	295073
10°	262179
15°	216321
20°	182109
25°	153643
30°	115020
35°	65057
40°	25686
45°	6925
50°	1329
55°	0
60°	167
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°	872.3	14.3	40.0	0°	9725	
10°-20°	1901.3	31.2	87.1	5°	9533	872
20°-30°	2036.6	33.4	93.3	15°	6776	1901
30°-40°	1103.6	18.1	50.6	25°	4516	2037
40°-50°	171.8	2.8	7.9	35°	1728	1104
50°-60°	4.5	0.1	0.2	45°	159	172
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°	4810.1	79.0	220.3	165°	0	0
0°-40°	5913.7	97.1	270.9	175°	0	0
0°-60°	6090.0	100.0	279.0	180°	0	0
0°-90°	6091.0	100.0	279.0			
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°	6091.0	100.0	279.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9724.8
2.5°	9716.9
5°	9532.6
7.5°	9078.2
10°	8373.1
12.5°	7548.0
15°	6776.1
17.5°	6120.9
20°	5549.5
22.5°	5036.7
25°	4515.7
27.5°	3924.4
30°	3230.3
32.5°	2463.9
35°	1728.2
37.5°	1106.8
40°	638.1
42.5°	340.0
45°	158.8
47.5°	86.7
50°	27.7
52.5°	2.7
55°	0.0
57.5°	2.7
60°	2.7
62.5°	0.0
65°	0.0
67.5°	2.7
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)