

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: P251257

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251257
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: LSR8B70D010 EC8B70940 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 5425.0 lumens
Efficiency: 248.5%
Efficacy: 71.5 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

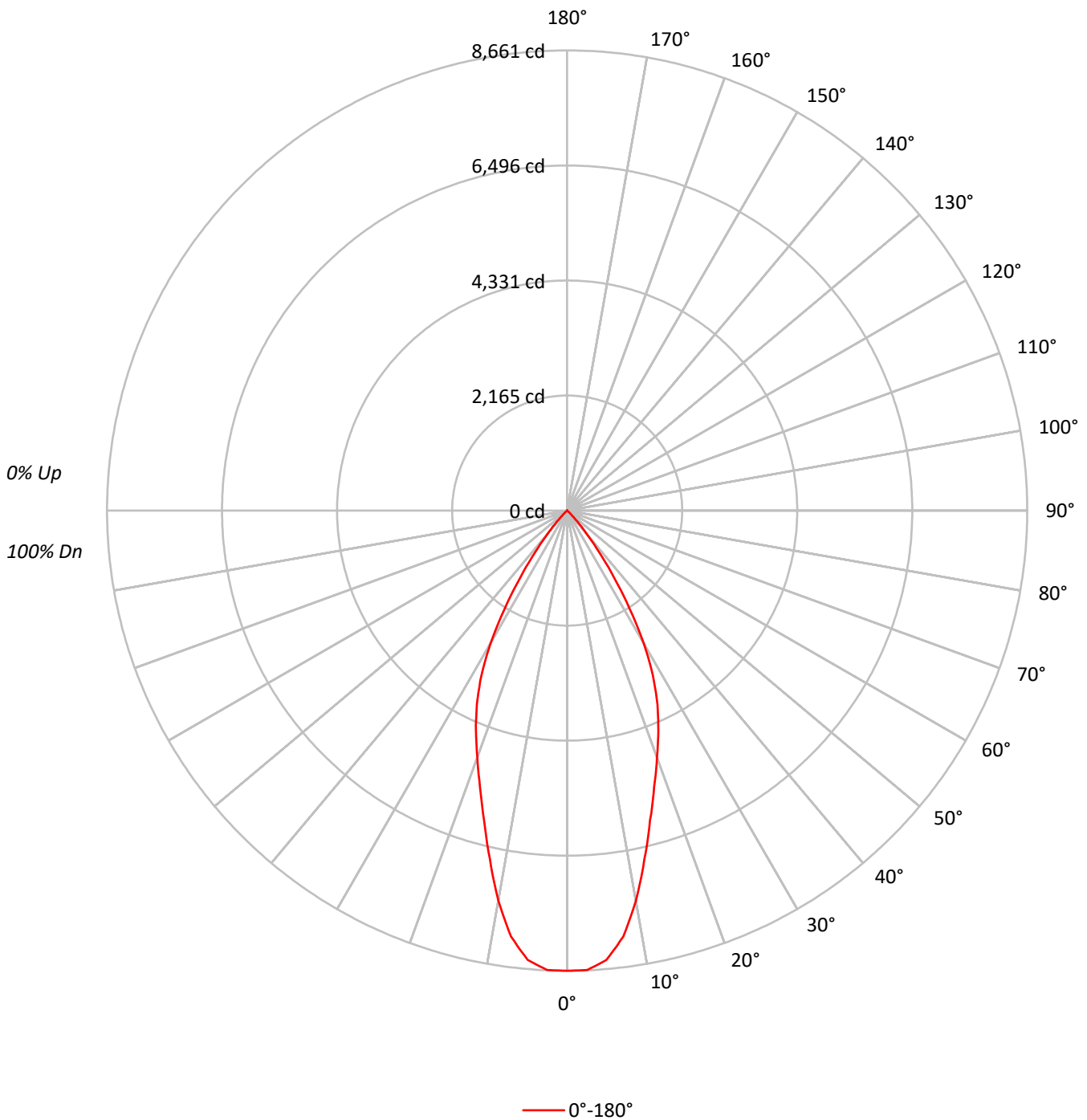
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
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	296	296	296	296	289	289	289	289	276	276	276	264	264	264	254	254	254	249	249	249
1	283	277	271	266	277	271	266	262	261	257	254	252	249	246	244	241	239	235	235	235
2	270	259	250	242	265	255	247	239	247	240	234	240	234	229	233	229	225	221	221	221
3	258	243	232	223	253	240	230	221	234	225	218	228	220	214	222	216	211	207	207	207
4	246	229	216	207	242	226	215	206	221	211	203	216	208	201	212	205	199	195	195	195
5	235	216	203	193	231	214	201	192	209	199	190	205	196	189	202	194	187	184	184	184
6	225	204	190	181	221	202	189	180	199	187	179	195	185	178	192	183	176	173	173	173
7	215	193	179	170	211	192	179	169	189	177	168	186	175	168	183	174	167	163	163	163
8	205	183	169	160	202	182	169	160	179	167	159	177	166	158	174	165	158	155	155	155
9	196	174	160	151	194	173	160	151	171	159	150	168	158	150	166	157	149	146	146	146
10	188	166	152	143	186	165	152	143	163	151	143	161	150	142	159	149	142	139	139	139

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	267086
5°	262807
10°	233512
15°	192668
20°	162196
25°	136842
30°	102444
35°	57942
40°	22876
45°	6166
50°	1185
55°	0
60°	148
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°	776.9	14.3	35.6	0°	8661	
10°-20°	1693.4	31.2	77.6	5°	8490	777
20°-30°	1813.9	33.4	83.1	15°	6035	1693
30°-40°	982.9	18.1	45.0	25°	4022	1814
40°-50°	153.0	2.8	7.0	35°	1539	983
50°-60°	4.0	0.1	0.2	45°	141	153
60°-70°	0.9	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°	4284.2	79.0	196.3	165°	0	0
0°-40°	5267.1	97.1	241.3	175°	0	0
0°-60°	5424.1	100.0	248.5	180°	0	0
0°-90°	5425.0	100.0	248.5			
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°	5425.0	100.0	248.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8661.4
2.5°	8654.4
5°	8490.2
7.5°	8085.5
10°	7457.6
12.5°	6722.7
15°	6035.2
17.5°	5451.7
20°	4942.7
22.5°	4485.9
25°	4021.9
27.5°	3495.3
30°	2877.1
32.5°	2194.5
35°	1539.2
37.5°	985.8
40°	568.3
42.5°	302.9
45°	141.4
47.5°	77.2
50°	24.7
52.5°	2.4
55°	0.0
57.5°	2.4
60°	2.4
62.5°	0.0
65°	0.0
67.5°	2.4
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)