

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: P251247

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251247
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 EC8B70840 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 6051.0 lumens
Efficiency: 277.2%
Efficacy: 79.7 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

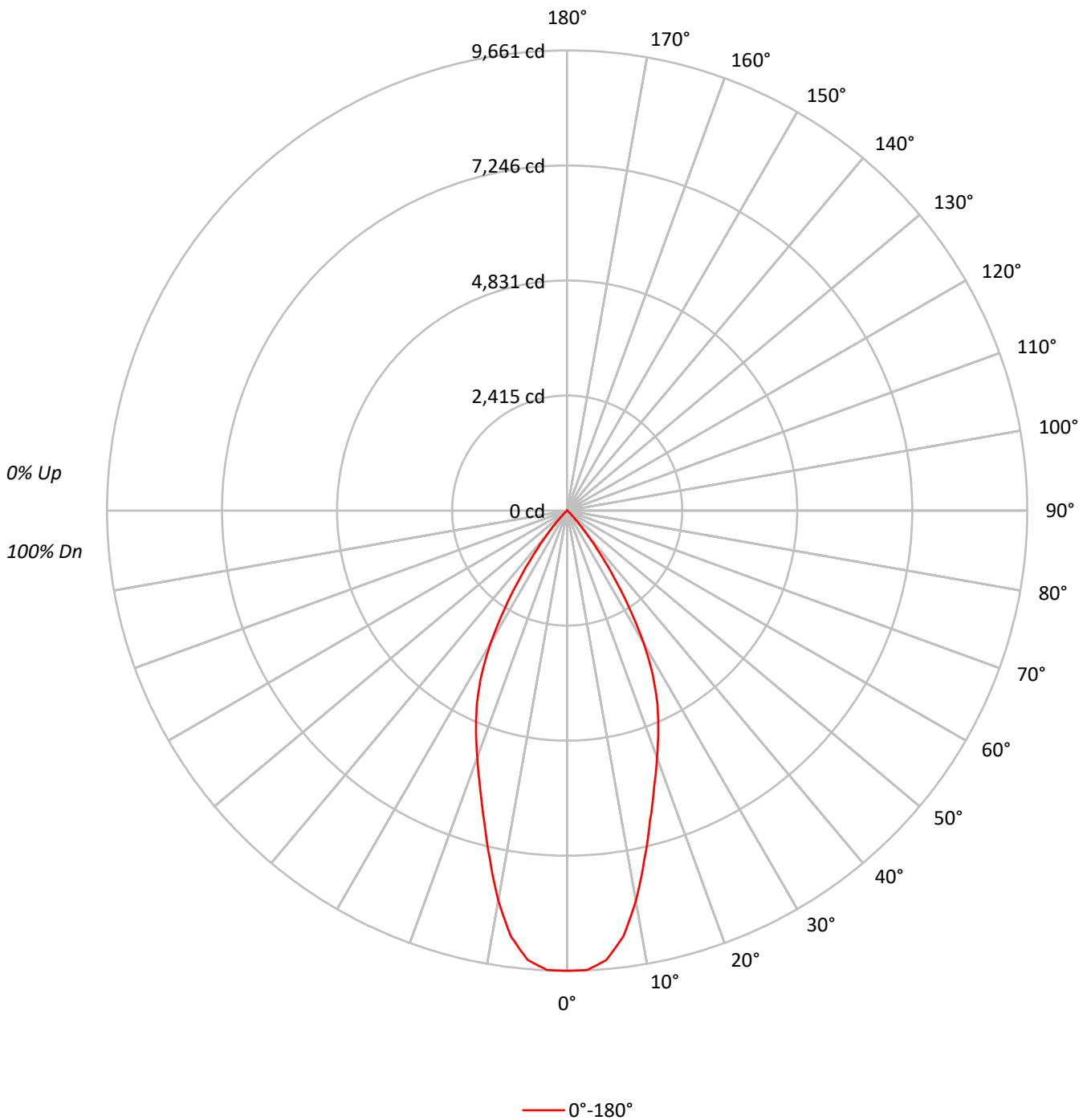
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	330	330	330	330	322	322	322	322	308	308	308	295	295	295	283	283	283	277			
1	316	309	302	296	309	303	297	292	292	287	283	281	278	274	272	269	266	262			
2	302	289	279	270	296	284	275	267	276	268	261	267	261	256	260	255	250	246			
3	288	272	259	249	283	268	256	247	261	251	243	254	246	239	248	241	235	231			
4	275	256	241	231	270	252	239	229	247	235	227	241	232	224	236	228	221	217			
5	262	241	226	215	258	238	224	214	234	221	212	229	219	210	225	216	209	205			
6	250	228	212	201	247	226	211	201	222	209	199	218	207	198	214	204	197	193			
7	239	216	200	189	236	214	199	189	210	197	188	207	195	187	204	194	186	182			
8	229	204	189	178	226	203	188	178	200	187	177	197	185	177	195	184	176	172			
9	219	194	179	169	216	193	178	168	190	177	168	188	176	167	186	175	167	163			
10	210	185	170	160	207	184	169	160	181	168	159	179	167	159	177	166	158	155			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	297907
5°	293135
10°	260460
15°	214900
20°	180911
25°	152632
30°	114265
35°	64628
40°	25517
45°	6877
50°	1319
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°	866.6	14.3	39.7	0°	9661	
10°-20°	1888.8	31.2	86.5	5°	9470	867
20°-30°	2023.2	33.4	92.7	15°	6732	1889
30°-40°	1096.3	18.1	50.2	25°	4486	2023
40°-50°	170.6	2.8	7.8	35°	1717	1096
50°-60°	4.5	0.1	0.2	45°	158	171
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°	4778.5	79.0	218.9	165°	0	0
0°-40°	5874.9	97.1	269.1	175°	0	0
0°-60°	6050.0	100.0	277.1	180°	0	0
0°-90°	6051.0	100.0	277.2			
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°	6051.0	100.0	277.2			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9660.9
2.5°	9653.1
5°	9470.0
7.5°	9018.5
10°	8318.2
12.5°	7498.4
15°	6731.6
17.5°	6080.7
20°	5513.0
22.5°	5003.6
25°	4486.0
27.5°	3898.6
30°	3209.1
32.5°	2447.7
35°	1716.8
37.5°	1099.5
40°	633.9
42.5°	337.8
45°	157.7
47.5°	86.1
50°	27.5
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)