

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: P246341

Luminaire Tested: **LSR8B50D010 EC8B50840 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246341
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: LSR8B50D010 EC8B50840 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3145.0 lumens
Efficiency: 166.7%
Efficacy: 59.3 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

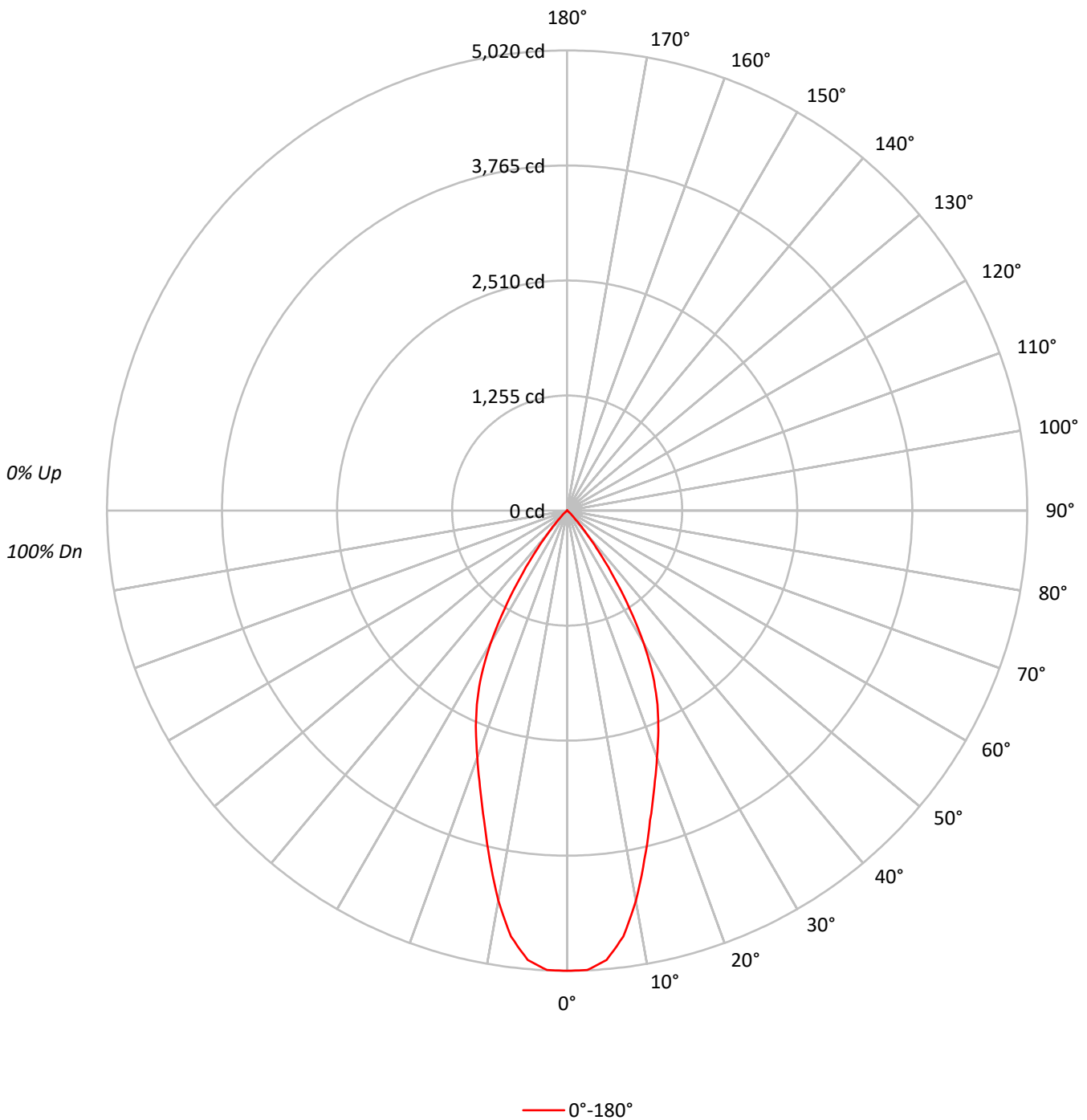
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	198	198	198	198	194	194	194	194	185	185	185	177	177	177	170	170	170	167	167	167	167	167		
1	190	186	182	178	186	182	179	175	175	173	170	169	167	165	163	162	160	157	157	157	157	157		
2	181	174	168	162	178	171	165	161	166	161	157	161	157	154	156	153	151	148	148	148	148	148		
3	173	163	156	150	170	161	154	148	157	151	146	153	148	144	149	145	142	139	139	139	139	139		
4	165	154	145	139	162	152	144	138	148	142	136	145	139	135	142	137	133	131	131	131	131	131		
5	158	145	136	129	155	143	135	129	140	133	128	138	131	126	135	130	125	123	123	123	123	123		
6	151	137	128	121	148	136	127	121	133	126	120	131	124	119	129	123	118	116	116	116	116	116		
7	144	130	120	114	142	128	120	114	126	119	113	125	118	112	123	116	112	110	110	110	110	110		
8	138	123	114	107	136	122	113	107	120	112	107	119	111	106	117	111	106	104	104	104	104	104		
9	132	117	108	101	130	116	107	101	114	106	101	113	106	101	112	105	100	98	98	98	98	98		
10	126	111	102	96	124	110	102	96	109	101	96	108	101	95	107	100	95	93	93	93	93	93		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	154795
5°	152350
10°	135340
15°	111674
20°	94032
25°	79314
30°	59406
35°	33597
40°	13268
45°	3550
50°	715
55°	0
60°	99
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°	450.3	14.3	23.9	0°	5020	
10°-20°	981.6	31.2	52.0	5°	4922	450
20°-30°	1051.6	33.4	55.7	15°	3498	982
30°-40°	569.9	18.1	30.2	25°	2331	1052
40°-50°	88.5	2.8	4.7	35°	892	570
50°-60°	2.5	0.1	0.1	45°	81	88
60°-70°	0.6	0.0	0.0	55°	0	2
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°	2483.5	79.0	131.6	165°	0	0
0°-40°	3053.4	97.1	161.8	175°	0	0
0°-60°	3144.4	100.0	166.6	180°	0	0
0°-90°	3145.0	100.0	166.7			
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°	3145.0	100.0	166.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5019.9
2.5°	5016.6
5°	4921.8
7.5°	4687.0
10°	4322.3
12.5°	3897.7
15°	3498.1
17.5°	3160.2
20°	2865.5
22.5°	2600.7
25°	2331.1
27.5°	2026.4
30°	1668.4
32.5°	1272.1
35°	892.5
37.5°	571.3
40°	329.6
42.5°	176.4
45°	81.4
47.5°	43.2
50°	14.9
52.5°	1.6
55°	0.0
57.5°	1.6
60°	1.6
62.5°	0.0
65°	0.0
67.5°	1.6
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)