

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: P246347

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246347
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 EC8B50850 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3207.0 lumens
Efficiency: 170.0%
Efficacy: 60.5 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

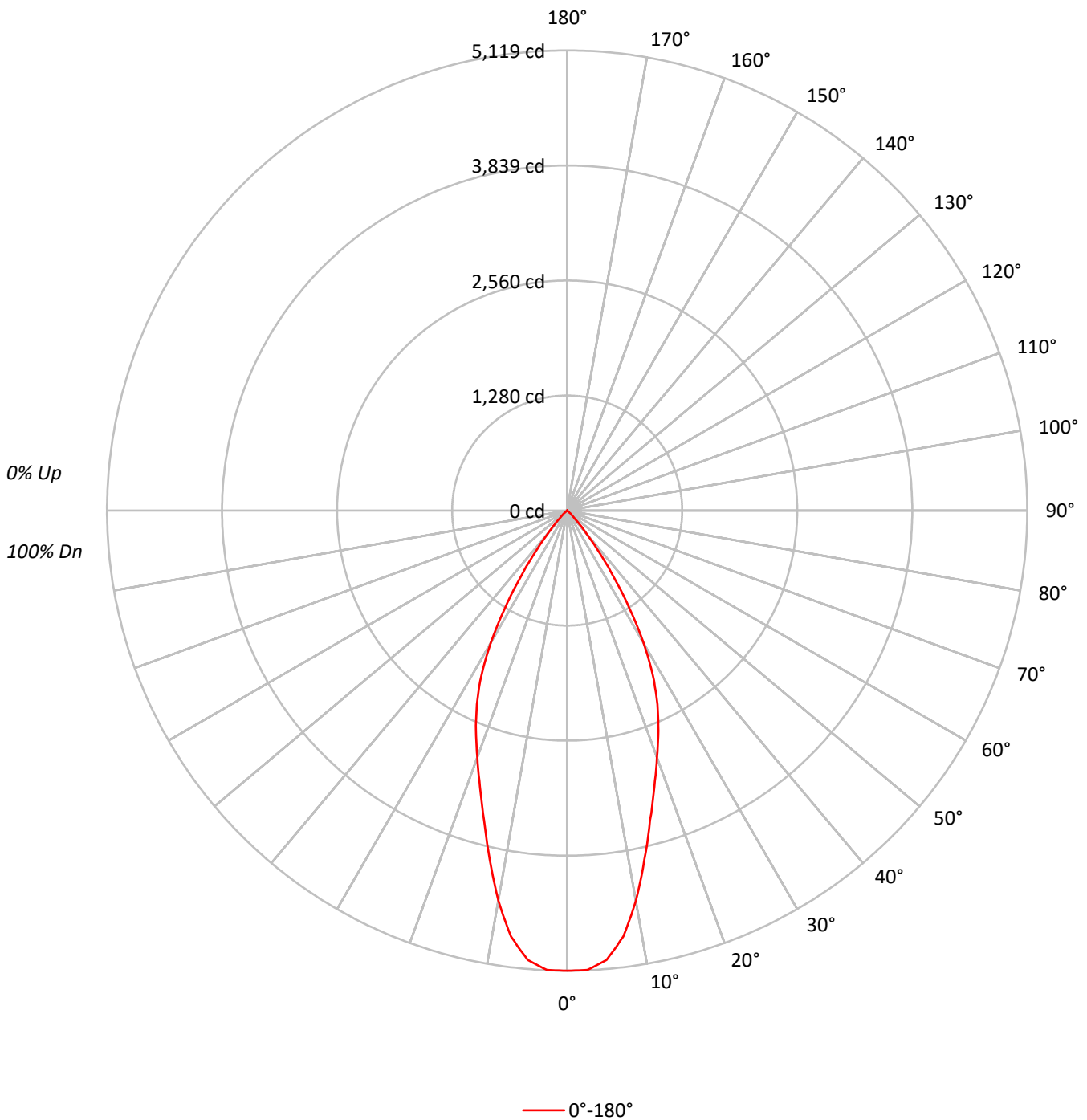
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	202	202	202	202	198	198	198	198	189	189	189	181	181	181	173	173	173	170
1	194	189	185	182	190	186	182	179	179	176	173	172	170	168	167	165	163	160
2	185	177	171	166	181	174	169	164	169	164	160	164	160	157	159	156	154	151
3	177	166	159	152	173	164	157	151	160	154	149	156	151	147	152	148	144	142
4	169	157	148	141	166	155	147	141	151	144	139	148	142	137	145	140	136	133
5	161	148	139	132	158	146	138	131	143	136	130	140	134	129	138	132	128	126
6	154	140	130	123	151	138	129	123	136	128	122	133	127	121	131	125	121	118
7	147	132	123	116	145	131	122	116	129	121	115	127	120	115	125	119	114	112
8	140	125	116	109	138	124	115	109	123	114	109	121	114	108	119	113	108	106
9	134	119	110	103	132	118	109	103	117	109	103	115	108	103	114	107	102	100
10	129	113	104	98	127	113	104	98	111	103	98	110	103	97	109	102	97	95

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	157848
5°	155352
10°	138011
15°	113876
20°	95883
25°	80875
30°	60578
35°	34260
40°	13529
45°	3620
50°	729
55°	0
60°	105
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°	459.2	14.3	24.3	0°	5119	
10°-20°	1001.0	31.2	53.0	5°	5019	459
20°-30°	1072.3	33.4	56.8	15°	3567	1001
30°-40°	581.1	18.1	30.8	25°	2377	1072
40°-50°	90.2	2.8	4.8	35°	910	581
50°-60°	2.6	0.1	0.1	45°	83	90
60°-70°	0.6	0.0	0.0	55°	0	3
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°	2532.5	79.0	134.2	165°	0	0
0°-40°	3113.5	97.1	165.0	175°	0	0
0°-60°	3206.4	100.0	169.9	180°	0	0
0°-90°	3207.0	100.0	170.0			
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°	3207.0	100.0	170.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5118.9
2.5°	5115.5
5°	5018.8
7.5°	4779.4
10°	4407.6
12.5°	3974.5
15°	3567.1
17.5°	3222.5
20°	2921.9
22.5°	2652.0
25°	2377.0
27.5°	2066.3
30°	1701.3
32.5°	1297.2
35°	910.1
37.5°	582.5
40°	336.1
42.5°	179.9
45°	83.0
47.5°	44.1
50°	15.2
52.5°	1.7
55°	0.0
57.5°	1.7
60°	1.7
62.5°	0.0
65°	0.0
67.5°	1.7
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)