

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: P246329

Luminaire Tested: **LSR8B50D010 EC8B50830 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246329
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 EC8B50830 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3045.0 lumens
Efficiency: 161.4%
Efficacy: 57.5 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

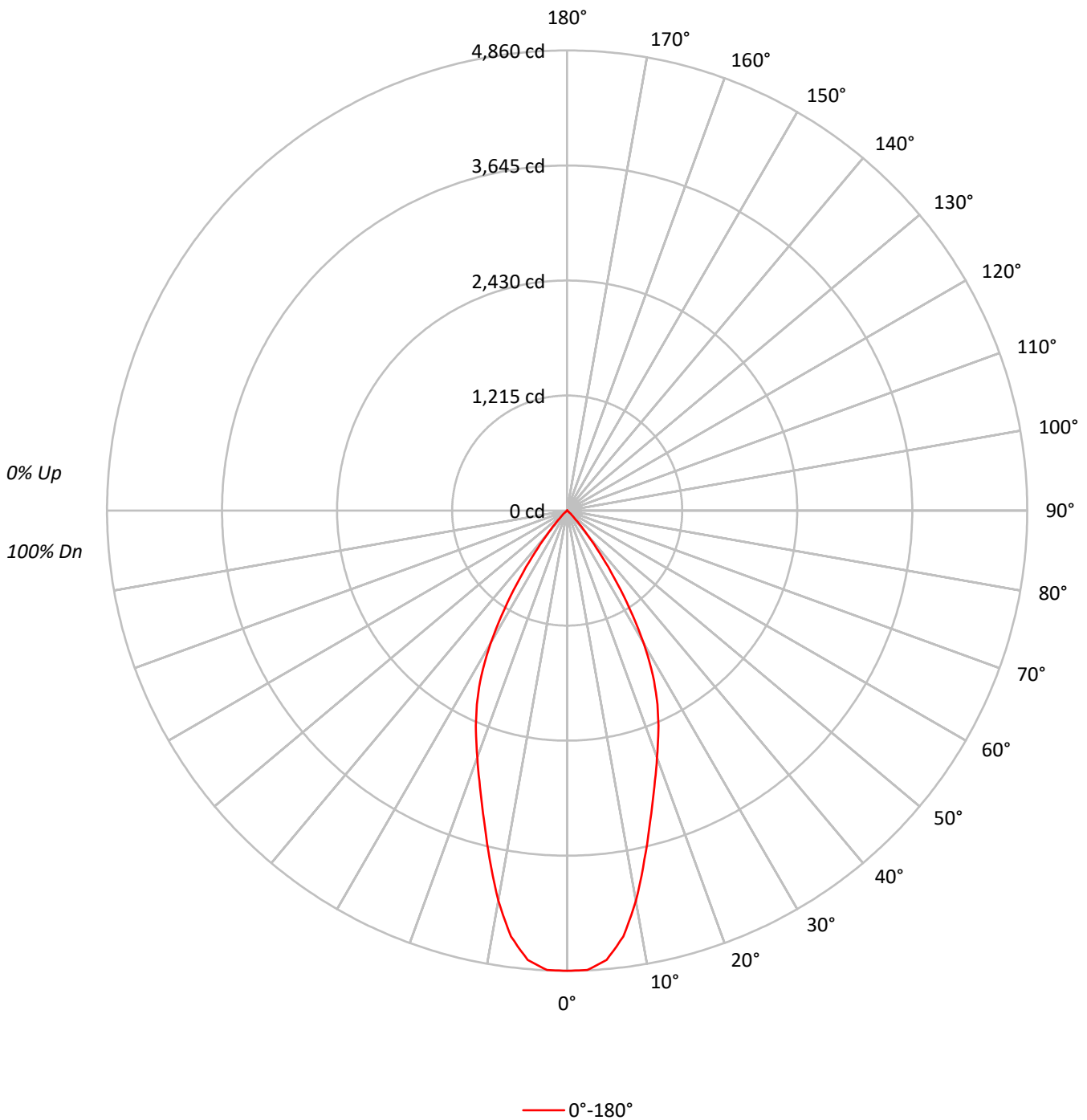
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	192	192	192	192	188	188	188	188	179	179	179	172	172	172	165	165	165	161		
1	184	180	176	173	180	176	173	170	170	167	165	164	162	160	158	157	155	152		
2	176	168	162	157	172	166	160	155	160	156	152	156	152	149	151	148	146	143		
3	168	158	151	145	165	156	149	144	152	146	141	148	143	139	144	140	137	135		
4	160	149	141	134	157	147	139	133	144	137	132	140	135	130	137	133	129	127		
5	153	140	132	125	150	139	131	125	136	129	124	133	127	122	131	126	121	119		
6	146	133	124	117	144	131	123	117	129	122	116	127	120	115	125	119	115	112		
7	139	125	116	110	137	124	116	110	122	115	109	121	114	109	119	113	108	106		
8	133	119	110	104	131	118	110	104	116	109	103	115	108	103	113	107	102	100		
9	127	113	104	98	126	112	104	98	111	103	98	109	102	97	108	102	97	95		
10	122	108	99	93	121	107	99	93	106	98	93	104	97	92	103	97	92	90		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	149874
5°	147506
10°	131038
15°	108124
20°	91040
25°	76789
30°	57516
35°	32528
40°	12845
45°	3436
50°	691
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°	436.0	14.3	23.1	0°	4860	
10°-20°	950.4	31.2	50.4	5°	4765	436
20°-30°	1018.1	33.4	54.0	15°	3387	950
30°-40°	551.7	18.1	29.2	25°	2257	1018
40°-50°	85.7	2.8	4.5	35°	864	552
50°-60°	2.4	0.1	0.1	45°	79	86
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°	2404.5	79.0	127.4	165°	0	0
0°-40°	2956.3	97.1	156.7	175°	0	0
0°-60°	3044.4	100.0	161.3	180°	0	0
0°-90°	3045.0	100.0	161.4			
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°	3045.0	100.0	161.4			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4860.3
2.5°	4857.1
5°	4765.3
7.5°	4538.0
10°	4184.9
12.5°	3773.8
15°	3386.9
17.5°	3059.7
20°	2774.3
22.5°	2518.0
25°	2256.9
27.5°	1961.9
30°	1615.3
32.5°	1231.7
35°	864.1
37.5°	553.1
40°	319.1
42.5°	170.8
45°	78.8
47.5°	41.9
50°	14.4
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)