

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: P245657

Luminaire Tested: **LSR8B50D010 EC8B50950 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245657
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: LSR8B50D010 EC8B50950 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 4107.0 lumens
Efficiency: 188.1%
Efficacy: 77.5 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

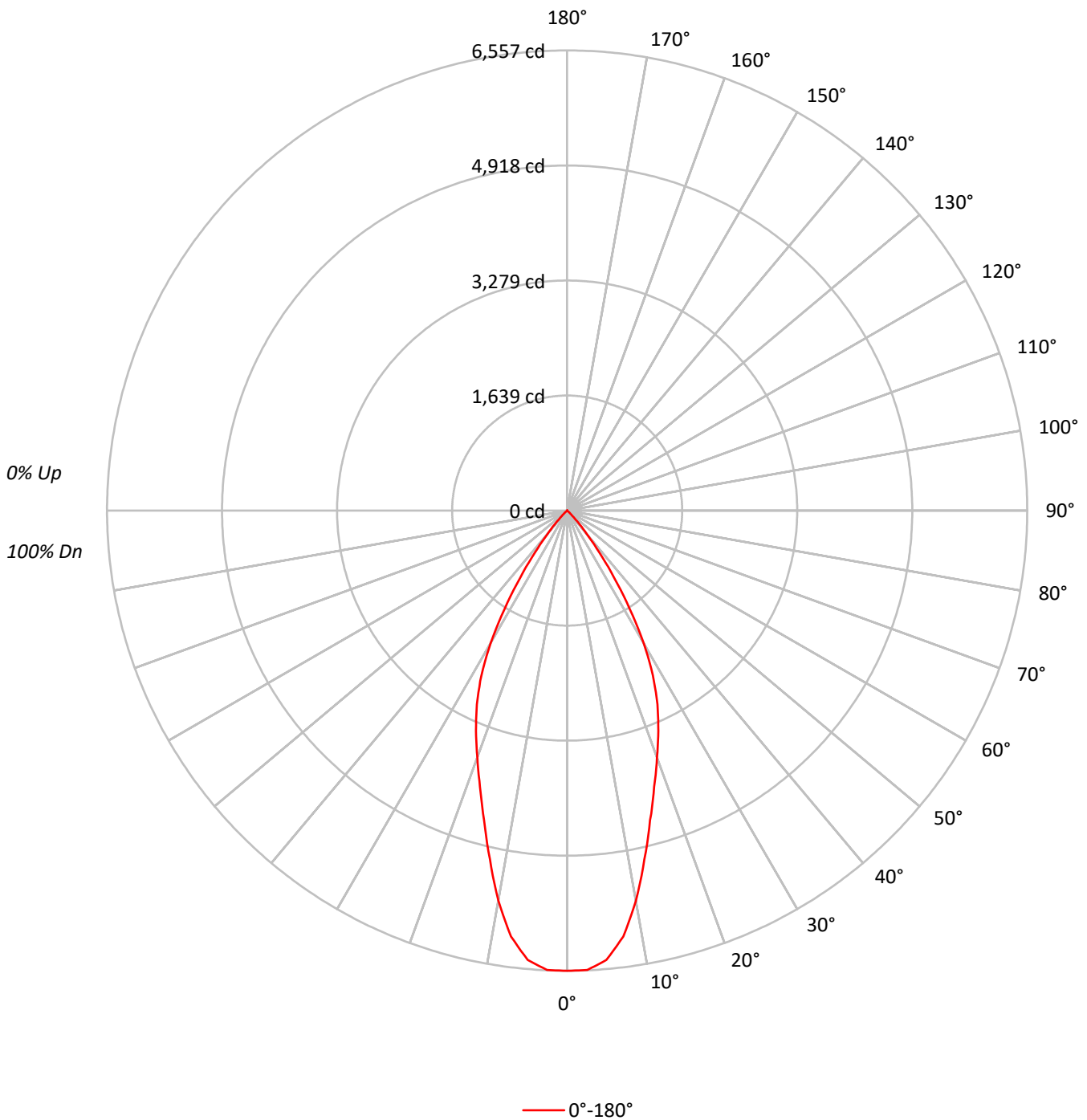
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	224	224	224	224	219	219	219	219	209	209	209	200	200	200	192	192	192	188
1	214	209	205	201	210	205	202	198	198	195	192	191	188	186	185	183	181	178
2	205	196	189	183	201	193	187	181	187	182	177	182	177	174	176	173	170	167
3	195	184	176	169	192	182	174	167	177	170	165	172	167	162	168	164	160	157
4	187	173	164	157	183	171	162	156	167	160	154	164	157	152	160	155	150	148
5	178	164	153	146	175	162	152	145	159	150	144	156	148	143	153	147	142	139
6	170	155	144	137	167	153	143	136	150	142	135	148	140	134	145	139	134	131
7	162	146	136	128	160	145	135	128	143	134	127	141	133	127	139	132	126	124
8	155	139	128	121	153	138	128	121	136	127	120	134	126	120	132	125	119	117
9	149	132	121	114	147	131	121	114	129	120	114	128	119	114	126	119	113	111
10	142	125	115	108	141	125	115	108	123	114	108	122	114	108	120	113	107	105

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	202200
5°	198958
10°	176781
15°	145858
20°	122788
25°	103597
30°	77555
35°	43867
40°	17321
45°	4671
50°	897
55°	0
60°	111
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°	588.2	14.3	26.9	0°	6557	
10°-20°	1282.0	31.2	58.7	5°	6428	588
20°-30°	1373.2	33.4	62.9	15°	4569	1282
30°-40°	744.1	18.1	34.1	25°	3045	1373
40°-50°	115.8	2.8	5.3	35°	1165	744
50°-60°	3.0	0.1	0.1	45°	107	116
60°-70°	0.7	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°	3243.3	79.0	148.6	165°	0	0
0°-40°	3987.5	97.1	182.7	175°	0	0
0°-60°	4106.3	100.0	188.1	180°	0	0
0°-90°	4107.0	100.0	188.1			
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°	4107.0	100.0	188.1			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6557.2
2.5°	6551.8
5°	6427.5
7.5°	6121.2
10°	5645.8
12.5°	5089.4
15°	4568.9
17.5°	4127.2
20°	3741.8
22.5°	3396.1
25°	3044.8
27.5°	2646.1
30°	2178.1
32.5°	1661.3
35°	1165.3
37.5°	746.3
40°	430.3
42.5°	229.3
45°	107.1
47.5°	58.4
50°	18.7
52.5°	1.8
55°	0.0
57.5°	1.8
60°	1.8
62.5°	0.0
65°	0.0
67.5°	1.8
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)