

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: P246335

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246335  
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 EC8B50835 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 3165.9 lumens  
Efficiency: 167.8%  
Efficacy: 59.7 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

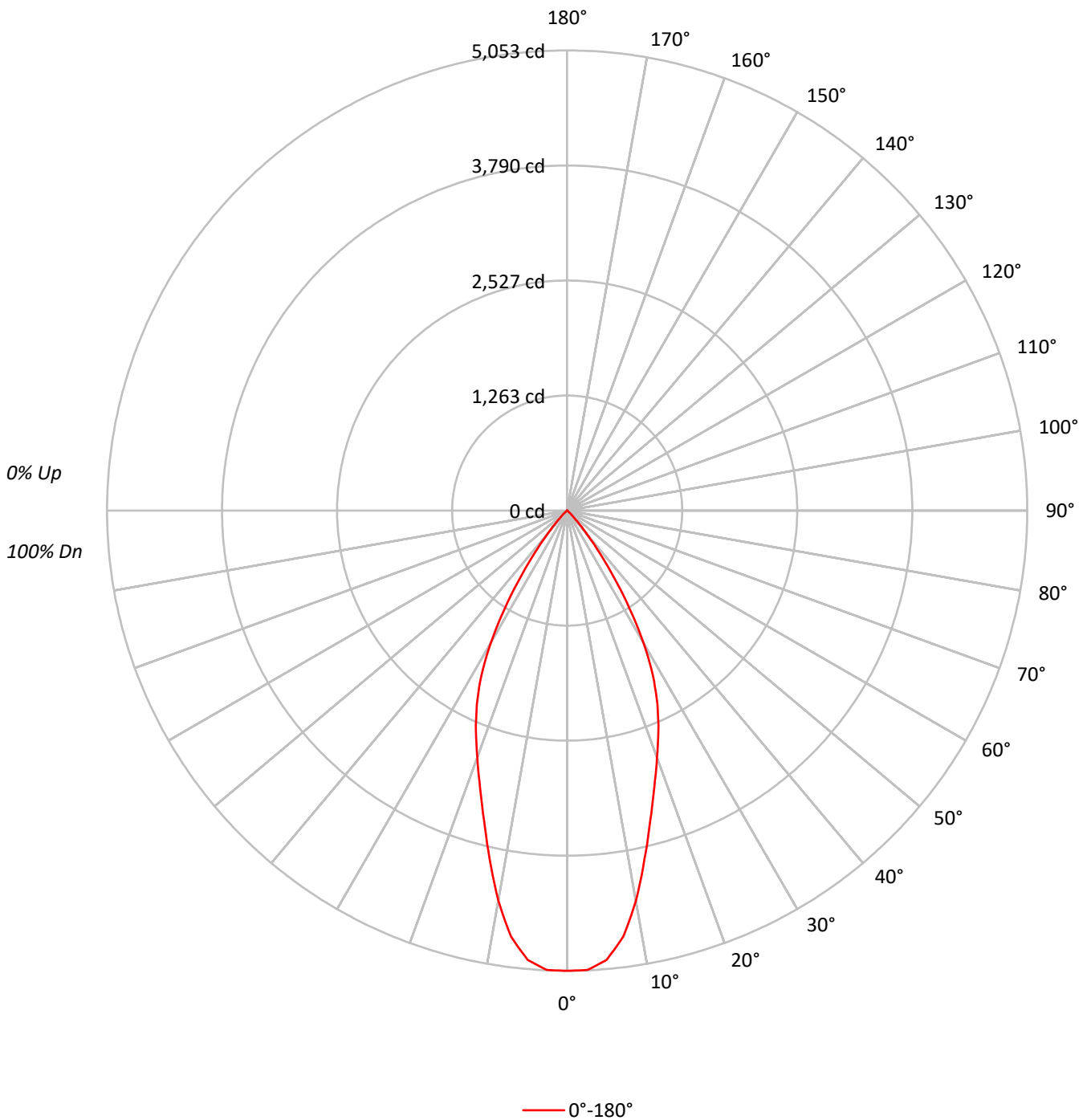
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	200	200	200	200	195	195	195	195	186	186	186	178	178	178	171	171	171	168	168	168	168
1	191	187	183	179	187	183	180	177	176	174	171	170	168	166	165	163	161	158	158	158	158
2	183	175	169	163	179	172	166	162	167	162	158	162	158	155	157	154	152	149	149	149	149
3	174	164	157	151	171	162	155	149	158	152	147	154	149	145	150	146	142	140	140	140	140
4	166	155	146	140	163	153	145	139	149	142	137	146	140	136	143	138	134	132	132	132	132
5	159	146	137	130	156	144	136	130	141	134	128	139	132	127	136	131	126	124	124	124	124
6	152	138	129	122	149	137	128	121	134	126	121	132	125	120	130	124	119	117	117	117	117
7	145	130	121	115	143	129	121	114	127	119	114	125	118	113	124	117	113	110	110	110	110
8	138	124	114	108	137	123	114	108	121	113	107	119	112	107	118	111	106	104	104	104	104
9	132	117	108	102	131	117	108	102	115	107	102	114	106	101	112	106	101	99	99	99	99
10	127	112	103	97	125	111	102	97	110	102	96	109	101	96	107	101	96	94	94	94	94

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	155828
5°	153368
10°	136245
15°	112421
20°	94659
25°	79841
30°	59801
35°	33823
40°	13356
45°	3572
50°	720
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°	453.3	14.3	24.0	0°	5053	
10°-20°	988.2	31.2	52.4	5°	4955	453
20°-30°	1058.6	33.4	56.1	15°	3522	988
30°-40°	573.7	18.1	30.4	25°	2347	1059
40°-50°	89.1	2.8	4.7	35°	898	574
50°-60°	2.5	0.1	0.1	45°	82	89
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°	2500.1	79.0	132.5	165°	0	0
0°-40°	3073.8	97.1	162.9	175°	0	0
0°-60°	3165.3	100.0	167.7	180°	0	0
0°-90°	3165.9	100.0	167.8			
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°	3165.9	100.0	167.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5053.4
2.5°	5050.1
5°	4954.7
7.5°	4718.3
10°	4351.2
12.5°	3923.7
15°	3521.5
17.5°	3181.3
20°	2884.6
22.5°	2618.1
25°	2346.6
27.5°	2039.9
30°	1679.5
32.5°	1280.6
35°	898.5
37.5°	575.1
40°	331.8
42.5°	177.6
45°	81.9
47.5°	43.5
50°	15.0
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)