

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: P245669

Luminaire Tested: **LSR8B50D010 EC8B509730 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245669  
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 EC8B509730 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 3281.0 lumens  
Efficiency: 150.3%  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

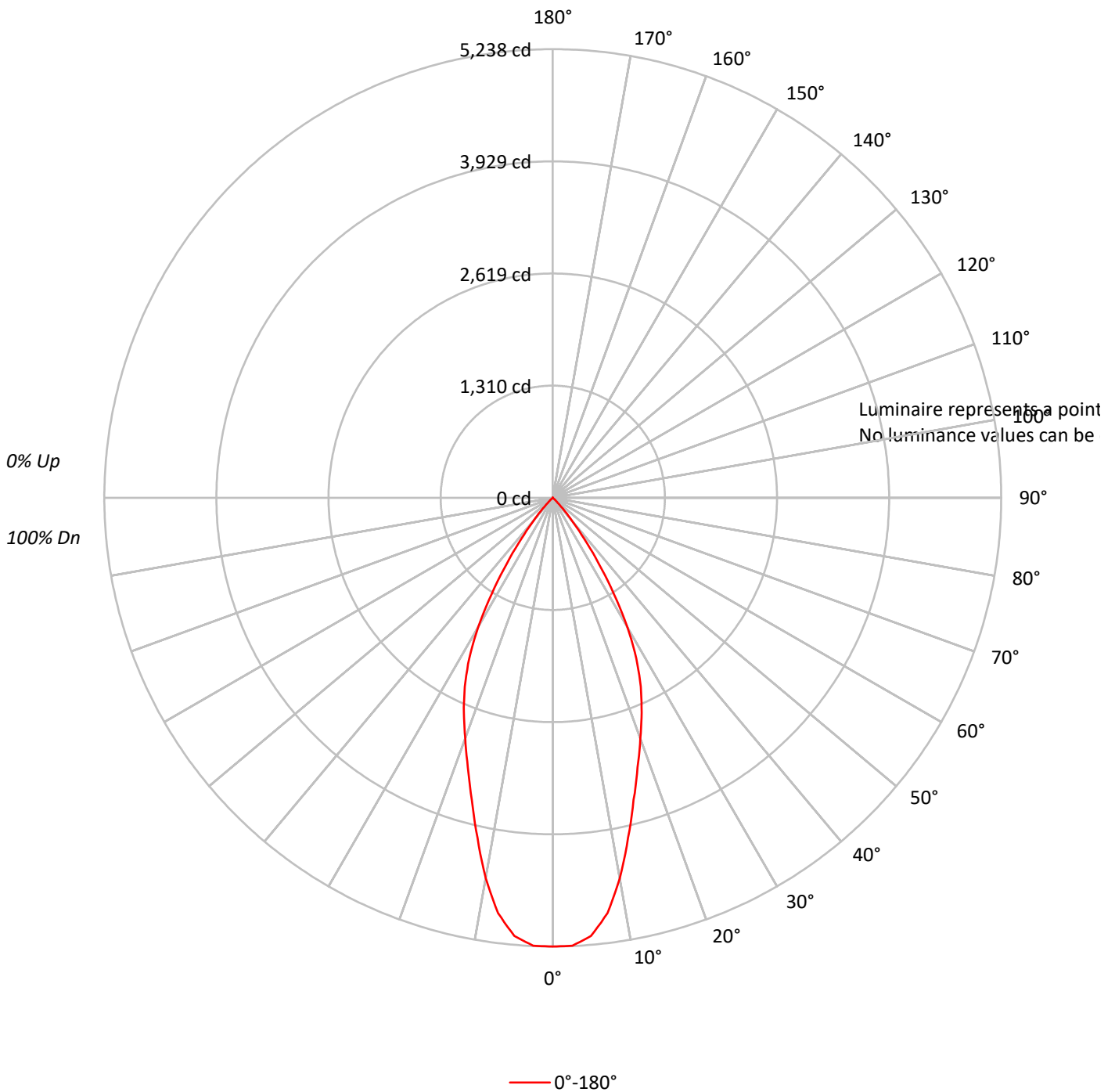
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	179	179	179	179	175	175	175	175	167	167	167	160	160	160	153	153	153	150	150	150	150	150		
1	171	167	164	161	168	164	161	158	158	156	153	153	151	149	147	146	144	142	142	142	142	142		
2	164	157	151	146	160	154	149	145	149	145	142	145	142	139	141	138	136	133	133	133	133	133		
3	156	147	140	135	153	145	139	134	141	136	132	138	133	130	134	131	128	125	125	125	125	125		
4	149	139	131	125	146	137	130	124	134	128	123	131	126	121	128	124	120	118	118	118	118	118		
5	142	131	123	117	140	129	122	116	127	120	115	124	119	114	122	117	113	111	111	111	111	111		
6	136	123	115	109	134	122	115	109	120	113	108	118	112	107	116	111	107	105	105	105	105	105		
7	130	117	108	103	128	116	108	102	114	107	102	112	106	101	111	105	101	99	99	99	99	99		
8	124	111	102	97	122	110	102	97	108	101	96	107	100	96	106	100	95	93	93	93	93	93		
9	119	105	97	91	117	105	97	91	103	96	91	102	95	91	101	95	90	89	89	89	89	89		
10	114	100	92	87	112	100	92	87	98	91	86	97	91	86	96	90	86	84	84	84	84	84		

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	469.9	14.3	21.5	0°	5238	
10°-20°	1024.1	31.2	46.9	5°	5135	470
20°-30°	1097.0	33.4	50.3	15°	3650	1024
30°-40°	594.5	18.1	27.2	25°	2432	1097
40°-50°	92.5	2.8	4.2	35°	931	594
50°-60°	2.4	0.1	0.1	45°	86	93
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°	2591.0	79.0	118.7	165°	0	0
0°-40°	3185.5	97.1	145.9	175°	0	0
0°-60°	3280.5	100.0	150.3	180°	0	0
0°-90°	3281.0	100.0	150.3			
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°	3281.0	100.0	150.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5238.4
2.5°	5234.1
5°	5134.8
7.5°	4890.1
10°	4510.3
12.5°	4065.8
15°	3650.0
17.5°	3297.1
20°	2989.3
22.5°	2713.1
25°	2432.4
27.5°	2113.9
30°	1740.1
32.5°	1327.2
35°	930.9
37.5°	596.2
40°	343.7
42.5°	183.2
45°	85.5
47.5°	46.7
50°	14.9
52.5°	1.5
55°	0.0
57.5°	1.5
60°	1.5
62.5°	0.0
65°	0.0
67.5°	1.5
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)