

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: P251370

Luminaire Tested: **LD8B60D010 ER8B609727 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251370
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: LD8B60D010 ER8B609727 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 2497.0 lumens
Efficiency: 132.3%
Efficacy: 42.0 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

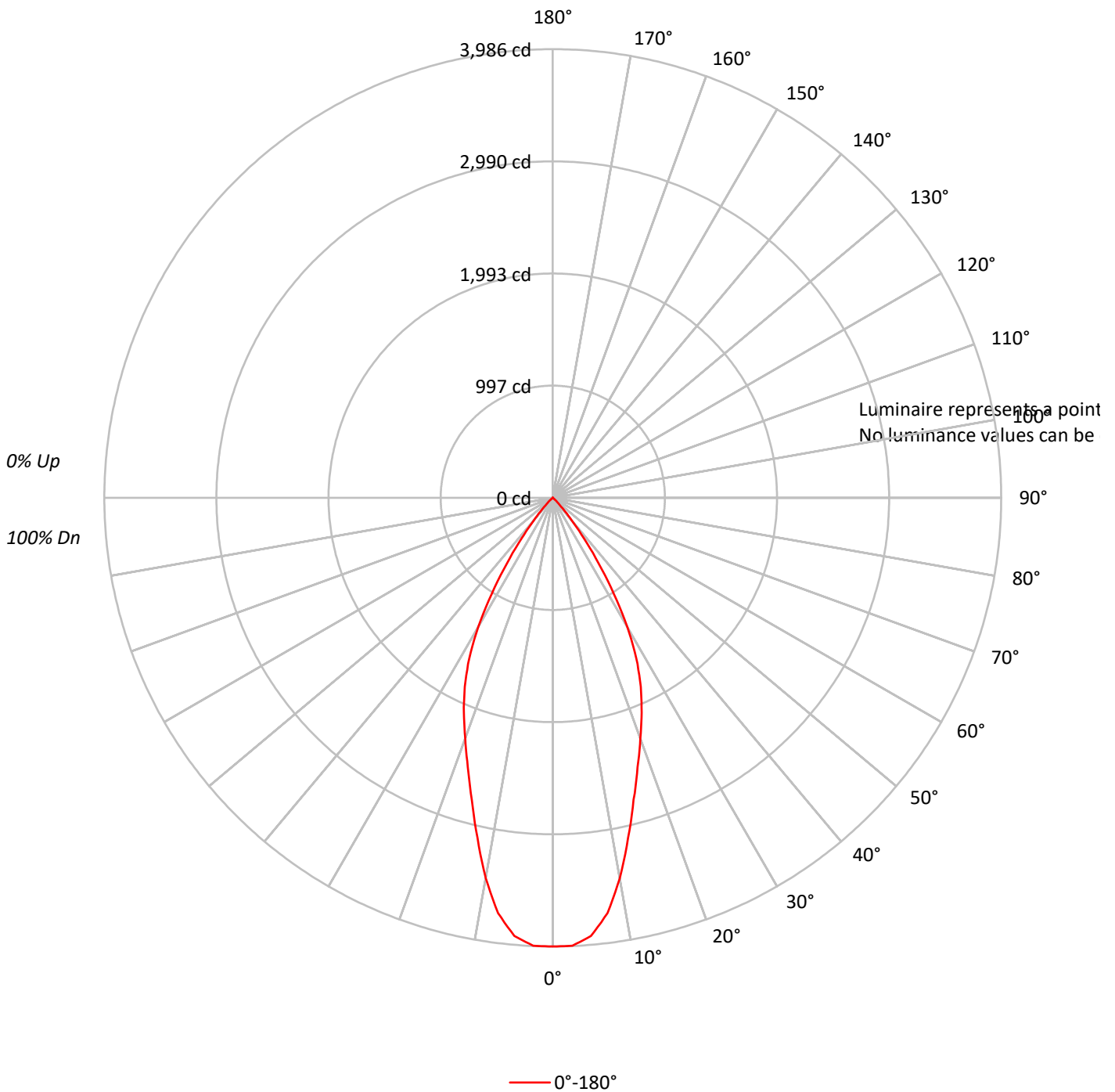
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	158	158	158	158	154	154	154	154	147	147	147	141	141	141	135	135	135	132						
1	151	147	144	142	148	145	142	139	139	137	135	134	133	131	130	128	127	125						
2	144	138	133	129	141	136	131	127	132	128	125	128	125	122	124	122	120	117						
3	137	130	124	119	135	128	122	118	124	120	116	121	117	114	118	115	112	110						
4	131	122	115	110	129	121	114	109	118	112	108	115	111	107	113	109	106	104						
5	125	115	108	103	123	114	107	102	112	106	101	109	104	100	107	103	100	98						
6	120	109	101	96	118	108	101	96	106	100	95	104	99	95	102	98	94	92						
7	114	103	96	90	113	102	95	90	100	94	90	99	93	89	97	92	89	87						
8	109	98	90	85	108	97	90	85	95	89	85	94	88	84	93	88	84	82						
9	104	93	85	81	103	92	85	80	91	85	80	90	84	80	89	83	80	78						
10	100	88	81	76	99	88	81	76	87	80	76	86	80	76	85	79	76	74						

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	357.6	14.3	18.9	0°	3986	
10°-20°	779.4	31.2	41.3	5°	3908	358
20°-30°	834.9	33.4	44.2	15°	2777	779
30°-40°	452.4	18.1	24.0	25°	1851	835
40°-50°	70.3	2.8	3.7	35°	709	452
50°-60°	2.0	0.1	0.1	45°	65	70
60°-70°	0.5	0.0	0.0	55°	0	2
70°-80°	0.0	0.0	0.0	65°	0	0
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°	1971.8	79.0	104.5	165°	0	0
0°-40°	2424.3	97.1	128.5	175°	0	0
0°-60°	2496.5	100.0	132.3	180°	0	0
0°-90°	2497.0	100.0	132.3			
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°	2497.0	100.0	132.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3985.6
2.5°	3983.0
5°	3907.7
7.5°	3721.3
10°	3431.8
12.5°	3094.6
15°	2777.4
17.5°	2509.1
20°	2275.1
22.5°	2064.9
25°	1850.8
27.5°	1608.8
30°	1324.6
32.5°	1010.0
35°	708.6
37.5°	453.6
40°	261.7
42.5°	140.1
45°	64.6
47.5°	34.3
50°	11.8
52.5°	1.3
55°	0.0
57.5°	1.3
60°	1.3
62.5°	0.0
65°	0.0
67.5°	1.3
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)