

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: P251362

Luminaire Tested: **LSR8B60D010 EC8B60930 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251362
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: LSR8B60D010 EC8B60930 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3321.5 lumens
Efficiency: 176.0%
Efficacy: 55.8 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

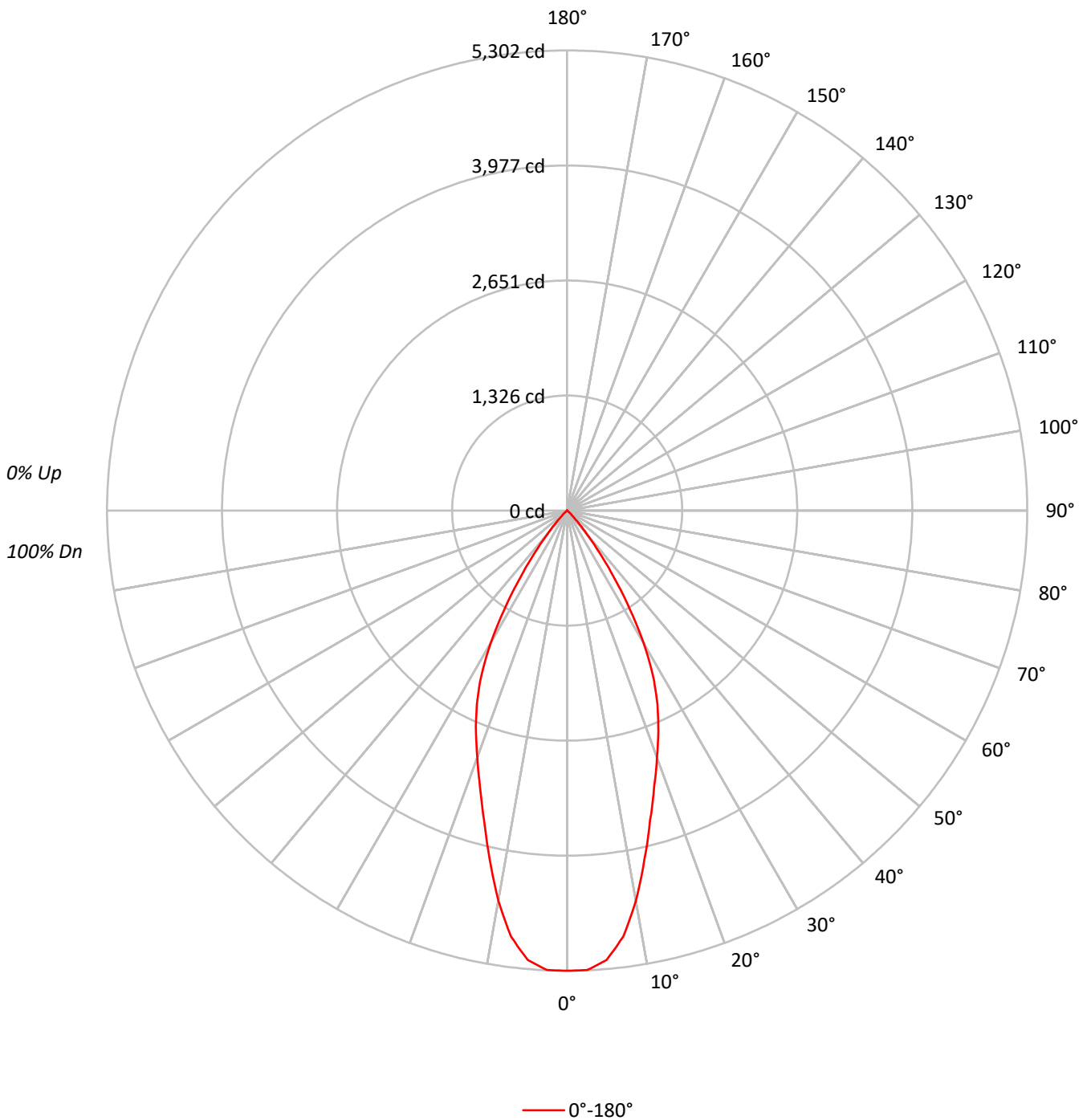
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																						
0	210	210	210	210	205	205	205	205	196	196	196	187	187	187	180	180	180	176	176	176	176	176
1	201	196	192	188	196	192	189	185	185	182	180	179	176	174	173	171	169	166	166	166	166	166
2	192	184	177	172	188	181	175	170	175	170	166	170	166	162	165	162	159	156	156	156	156	156
3	183	172	164	158	179	170	163	157	165	159	154	161	156	152	157	153	149	147	147	147	147	147
4	175	162	153	146	171	160	152	146	157	149	144	153	147	142	150	145	141	138	138	138	138	138
5	167	153	144	137	164	151	143	136	148	141	135	145	139	134	143	137	132	130	130	130	130	130
6	159	145	135	128	157	143	134	127	141	133	127	138	131	126	136	130	125	123	123	123	123	123
7	152	137	127	120	150	136	126	120	134	125	119	131	124	119	130	123	118	116	116	116	116	116
8	145	130	120	113	143	129	120	113	127	119	113	125	118	112	124	117	112	109	109	109	109	109
9	139	123	114	107	137	122	113	107	121	112	107	119	112	106	118	111	106	104	104	104	104	104
10	133	117	108	101	131	117	107	101	115	107	101	114	106	101	113	106	101	98	98	98	98	98

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	163485
5°	160903
10°	142936
15°	117944
20°	99309
25°	83764
30°	62739
35°	35483
40°	14012
45°	3750
50°	753
55°	0
60°	105
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°	475.6	14.3	25.2	0°	5302	
10°-20°	1036.7	31.2	54.9	5°	5198	476
20°-30°	1110.6	33.4	58.9	15°	3694	1037
30°-40°	601.8	18.1	31.9	25°	2462	1111
40°-50°	93.5	2.8	5.0	35°	943	602
50°-60°	2.6	0.1	0.1	45°	86	93
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°	2622.9	79.0	139.0	165°	0	0
0°-40°	3224.7	97.1	170.9	175°	0	0
0°-60°	3320.8	100.0	176.0	180°	0	0
0°-90°	3321.5	100.0	176.0			
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°	3321.5	100.0	176.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5301.7
2.5°	5298.2
5°	5198.1
7.5°	4950.1
10°	4564.9
12.5°	4116.5
15°	3694.5
17.5°	3337.6
20°	3026.3
22.5°	2746.7
25°	2461.9
27.5°	2140.1
30°	1762.0
32.5°	1343.5
35°	942.6
37.5°	603.3
40°	348.1
42.5°	186.3
45°	86.0
47.5°	45.6
50°	15.7
52.5°	1.7
55°	0.0
57.5°	1.7
60°	1.7
62.5°	0.0
65°	0.0
67.5°	1.7
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)