

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: P246387

Luminaire Tested: **LSR8B30D010 EC8B309730 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246387
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: LSR8B30D010 EC8B309730 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1310.0 lumens
Efficiency: 69.4%
Efficacy: 48.3 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

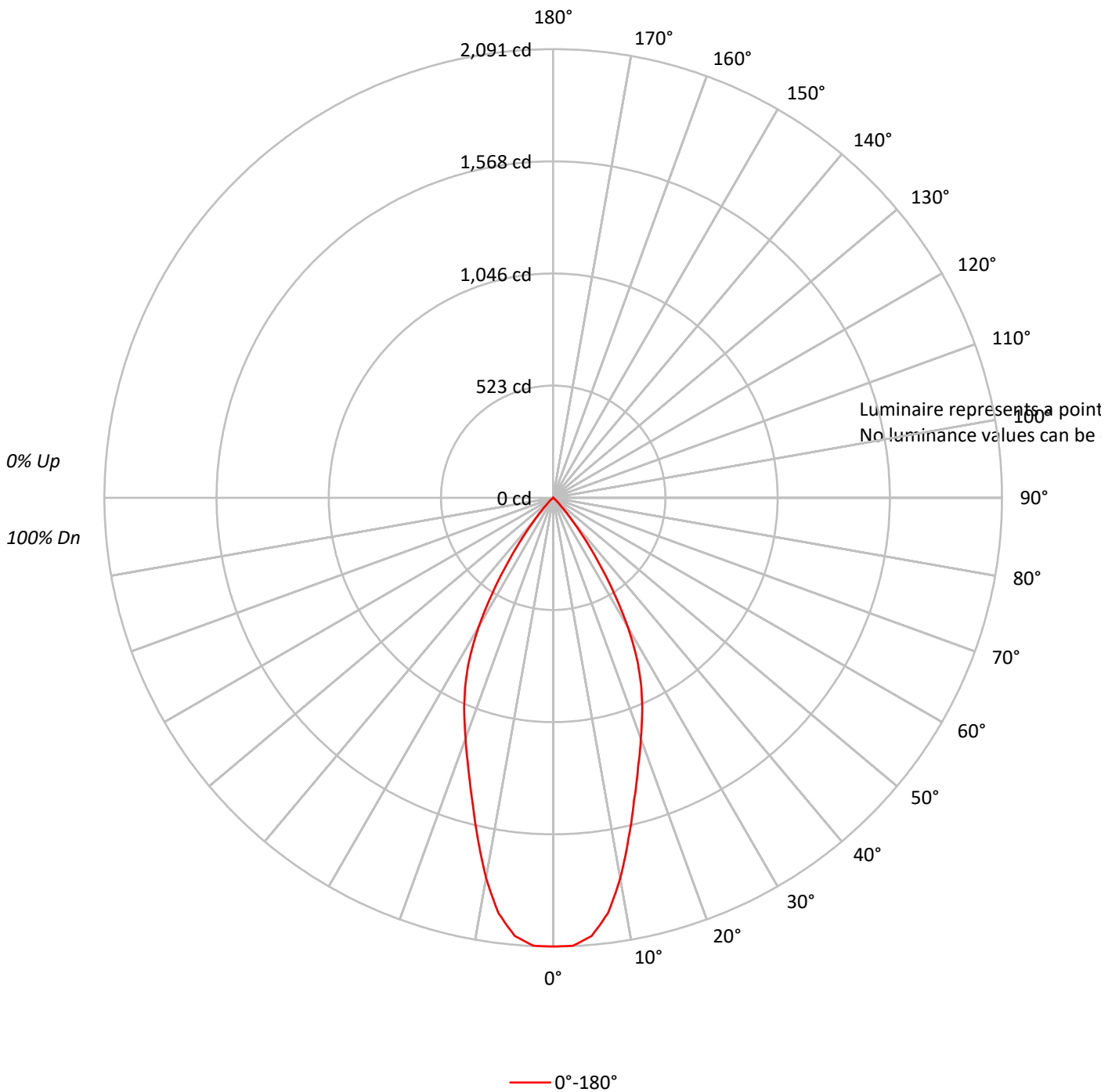
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	83	83	83	81	81	81	81	77	77	77		74	74	74		71	71	71	69
1	79	77	76	74	77	76	74	73	73	72	71		70	70	69		68	67	67	66
2	76	72	70	68	74	71	69	67	69	67	65		67	65	64		65	64	63	62
3	72	68	65	62	71	67	64	62	65	63	61		64	62	60		62	60	59	58
4	69	64	60	58	68	63	60	57	62	59	57		60	58	56		59	57	55	54
5	66	60	57	54	65	60	56	54	59	55	53		57	55	53		56	54	52	51
6	63	57	53	50	62	56	53	50	55	52	50		55	52	50		54	51	49	48
7	60	54	50	47	59	54	50	47	53	49	47		52	49	47		51	49	47	46
8	57	51	47	45	56	51	47	45	50	47	44		49	46	44		49	46	44	43
9	55	49	45	42	54	48	45	42	48	44	42		47	44	42		46	44	42	41
10	53	46	43	40	52	46	42	40	45	42	40		45	42	40		44	42	40	39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	187.6	14.3	9.9	0°	2091	
10°-20°	408.9	31.2	21.7	5°	2050	188
20°-30°	438.0	33.4	23.2	15°	1457	409
30°-40°	237.4	18.1	12.6	25°	971	438
40°-50°	36.9	2.8	2.0	35°	372	237
50°-60°	1.1	0.1	0.1	45°	34	37
60°-70°	0.3	0.0	0.0	55°	0	1
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°	1034.5	79.0	54.8	165°	0	0
0°-40°	1271.8	97.1	67.4	175°	0	0
0°-60°	1309.8	100.0	69.4	180°	0	0
0°-90°	1310.0	100.0	69.4			
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°	1310.0	100.0	69.4			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2091.0
2.5°	2089.6
5°	2050.1
7.5°	1952.3
10°	1800.4
12.5°	1623.5
15°	1457.1
17.5°	1316.3
20°	1193.6
22.5°	1083.3
25°	971.0
27.5°	844.0
30°	694.9
32.5°	529.9
35°	371.8
37.5°	238.0
40°	137.3
42.5°	73.5
45°	33.9
47.5°	18.0
50°	6.2
52.5°	0.7
55°	0.0
57.5°	0.7
60°	0.7
62.5°	0.0
65°	0.0
67.5°	0.7
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)