

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: P246381

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246381
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 EC8B309727 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1239.0 lumens
Efficiency: 65.7%
Efficacy: 45.7 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

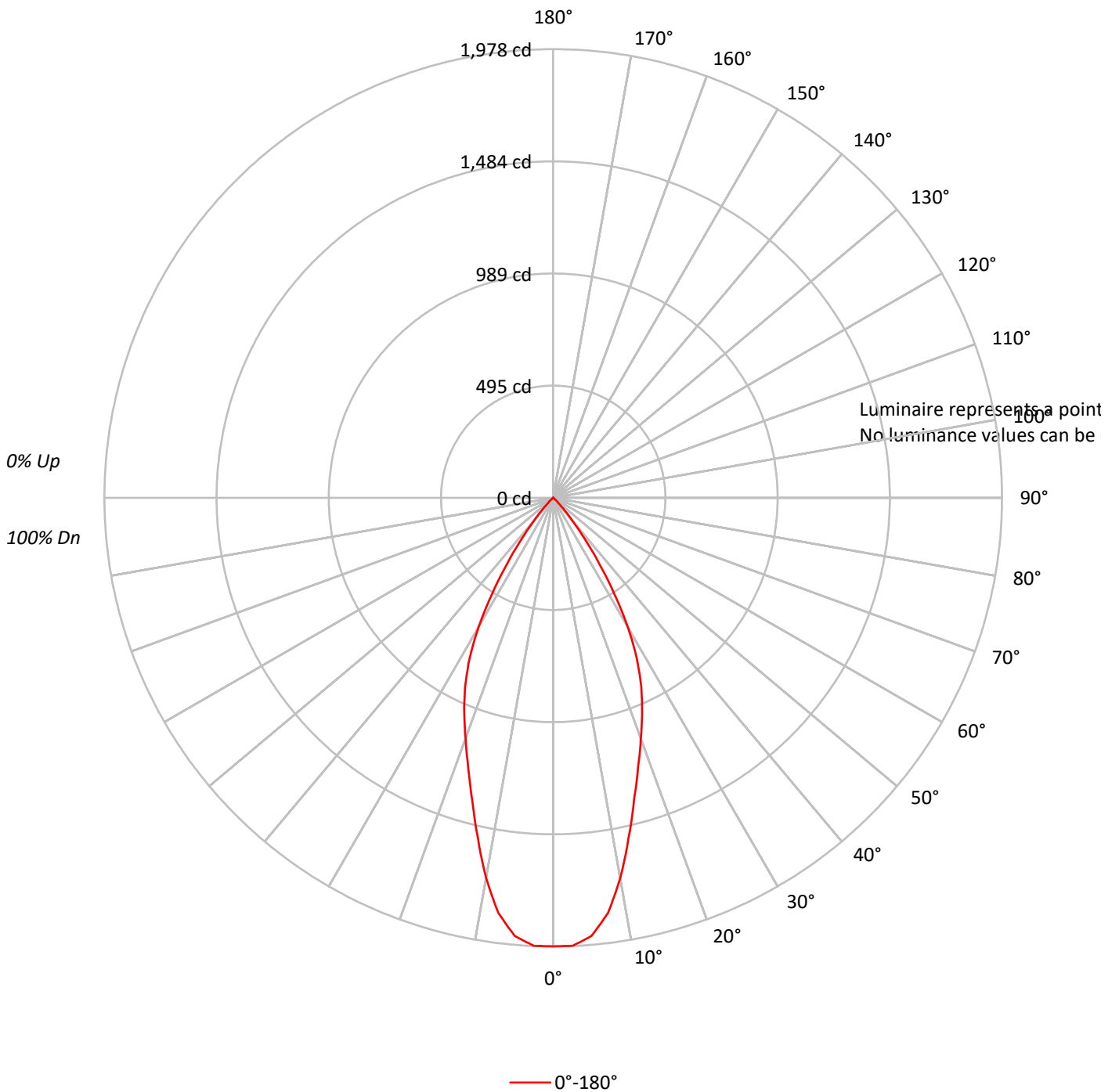
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	75	73	72	70	73	72	70	69	69	68	67		67	66	65		64	64	63	62
2	71	68	66	64	70	67	65	63	65	63	62		63	62	61		62	60	59	58
3	68	64	61	59	67	63	61	58	62	59	58		60	58	57		59	57	56	55
4	65	61	57	55	64	60	57	54	58	56	54		57	55	53		56	54	52	52
5	62	57	54	51	61	56	53	51	55	52	50		54	52	50		53	51	49	48
6	59	54	50	48	58	53	50	48	52	49	47		52	49	47		51	48	47	46
7	57	51	47	45	56	51	47	45	50	47	44		49	46	44		48	46	44	43
8	54	48	45	42	53	48	45	42	47	44	42		47	44	42		46	44	42	41
9	52	46	42	40	51	46	42	40	45	42	40		45	42	40		44	41	39	39
10	50	44	40	38	49	43	40	38	43	40	38		42	40	38		42	39	38	37

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	177.4	14.3	9.4	0°	1978	
10°-20°	386.7	31.2	20.5	5°	1939	177
20°-30°	414.3	33.4	22.0	15°	1378	387
30°-40°	224.5	18.1	11.9	25°	918	414
40°-50°	34.9	2.8	1.8	35°	352	225
50°-60°	1.0	0.1	0.1	45°	32	35
60°-70°	0.2	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°	978.4	79.0	51.8	165°	0	0
0°-40°	1202.9	97.1	63.7	175°	0	0
0°-60°	1238.8	100.0	65.6	180°	0	0
0°-90°	1239.0	100.0	65.7			
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°	1239.0	100.0	65.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1977.6
2.5°	1976.3
5°	1939.0
7.5°	1846.5
10°	1702.8
12.5°	1535.5
15°	1378.1
17.5°	1245.0
20°	1128.9
22.5°	1024.6
25°	918.3
27.5°	798.3
30°	657.3
32.5°	501.2
35°	351.6
37.5°	225.1
40°	129.9
42.5°	69.5
45°	32.1
47.5°	17.0
50°	5.9
52.5°	0.6
55°	0.0
57.5°	0.6
60°	0.6
62.5°	0.0
65°	0.0
67.5°	0.6
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)