

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: P246339

Luminaire Tested: **LSR8B30D010 EC8B30840 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246339
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 EC8B30840 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1767.0 lumens
Efficiency: 93.6%
Efficacy: 65.2 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

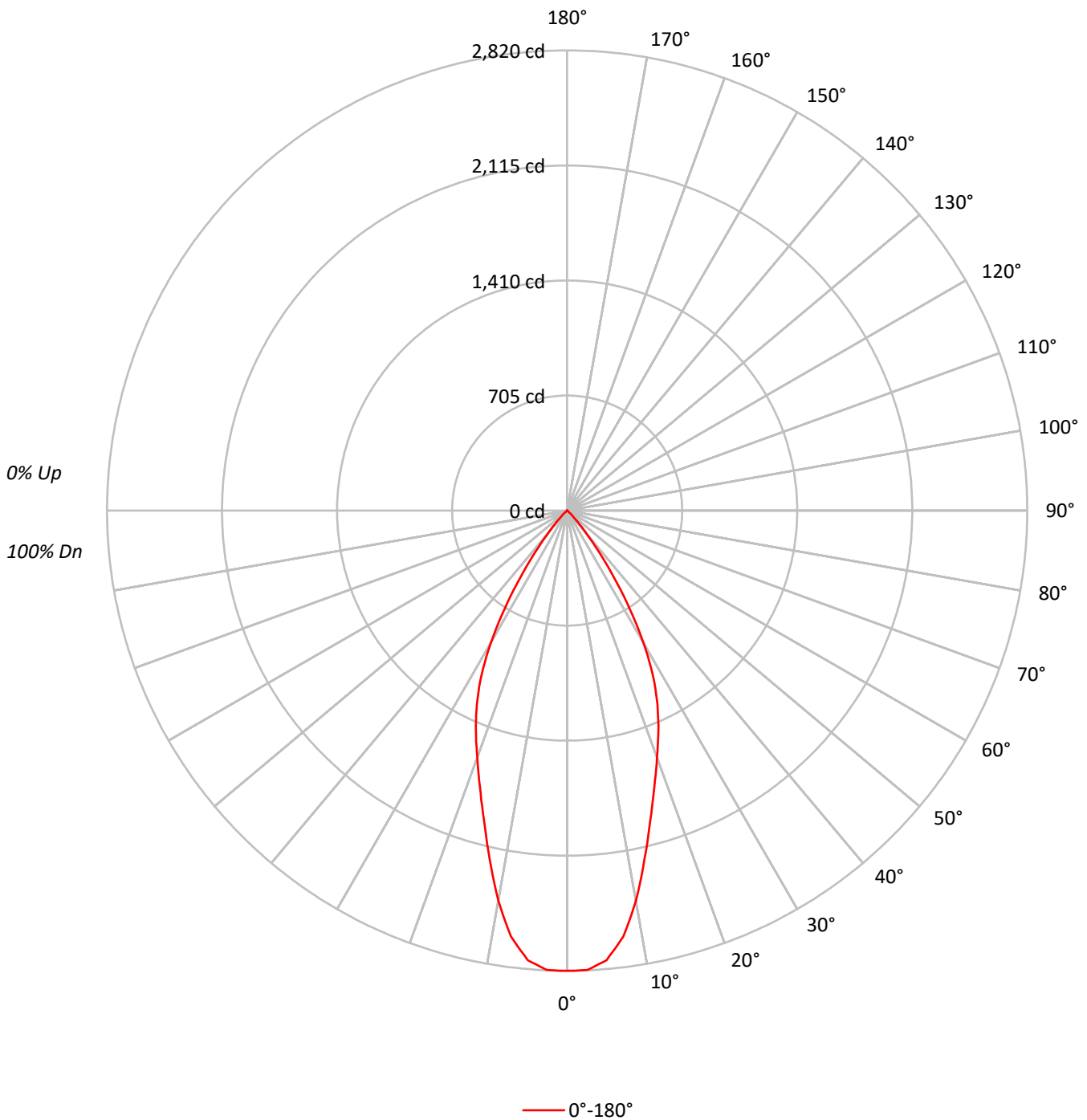
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	109	109	109	109	104	104	104	100	100	100	96	96	96	94
1	107	104	102	100	104	102	100	99	98	97	96	95	94	93	92	91	90	88
2	102	98	94	91	100	96	93	90	93	91	88	90	88	86	88	86	85	83
3	97	92	87	84	95	90	87	83	88	85	82	86	83	81	84	81	80	78
4	93	86	82	78	91	85	81	77	83	80	77	81	78	76	80	77	75	73
5	89	81	76	73	87	81	76	72	79	75	72	77	74	71	76	73	70	69
6	85	77	72	68	83	76	71	68	75	71	67	74	70	67	72	69	66	65
7	81	73	68	64	80	72	67	64	71	67	63	70	66	63	69	65	63	62
8	77	69	64	60	76	69	64	60	68	63	60	67	63	60	66	62	59	58
9	74	66	60	57	73	65	60	57	64	60	57	63	59	57	63	59	56	55
10	71	62	57	54	70	62	57	54	61	57	54	61	56	54	60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86971
5°	85597
10°	76041
15°	62744
20°	52829
25°	44561
30°	33378
35°	18879
40°	7455
45°	1993
50°	403
55°	0
60°	56
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°	253.0	14.3	13.4	0°	2820	
10°-20°	551.5	31.2	29.2	5°	2765	253
20°-30°	590.8	33.4	31.3	15°	1965	552
30°-40°	320.2	18.1	17.0	25°	1310	591
40°-50°	49.7	2.8	2.6	35°	502	320
50°-60°	1.4	0.1	0.1	45°	46	50
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°	1395.3	79.0	73.9	165°	0	0
0°-40°	1715.5	97.1	90.9	175°	0	0
0°-60°	1766.7	100.0	93.6	180°	0	0
0°-90°	1767.0	100.0	93.6			
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°	1767.0	100.0	93.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2820.4
2.5°	2818.6
5°	2765.3
7.5°	2633.4
10°	2428.5
12.5°	2189.9
15°	1965.4
17.5°	1775.5
20°	1609.9
22.5°	1461.2
25°	1309.7
27.5°	1138.5
30°	937.4
32.5°	714.7
35°	501.5
37.5°	321.0
40°	185.2
42.5°	99.1
45°	45.7
47.5°	24.3
50°	8.4
52.5°	0.9
55°	0.0
57.5°	0.9
60°	0.9
62.5°	0.0
65°	0.0
67.5°	0.9
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)