

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: P245643

Luminaire Tested: **LSR8B30D010 EC8B30935 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30935 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 2134.1 lumens
Efficiency: 97.8%
Efficacy: 78.7 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

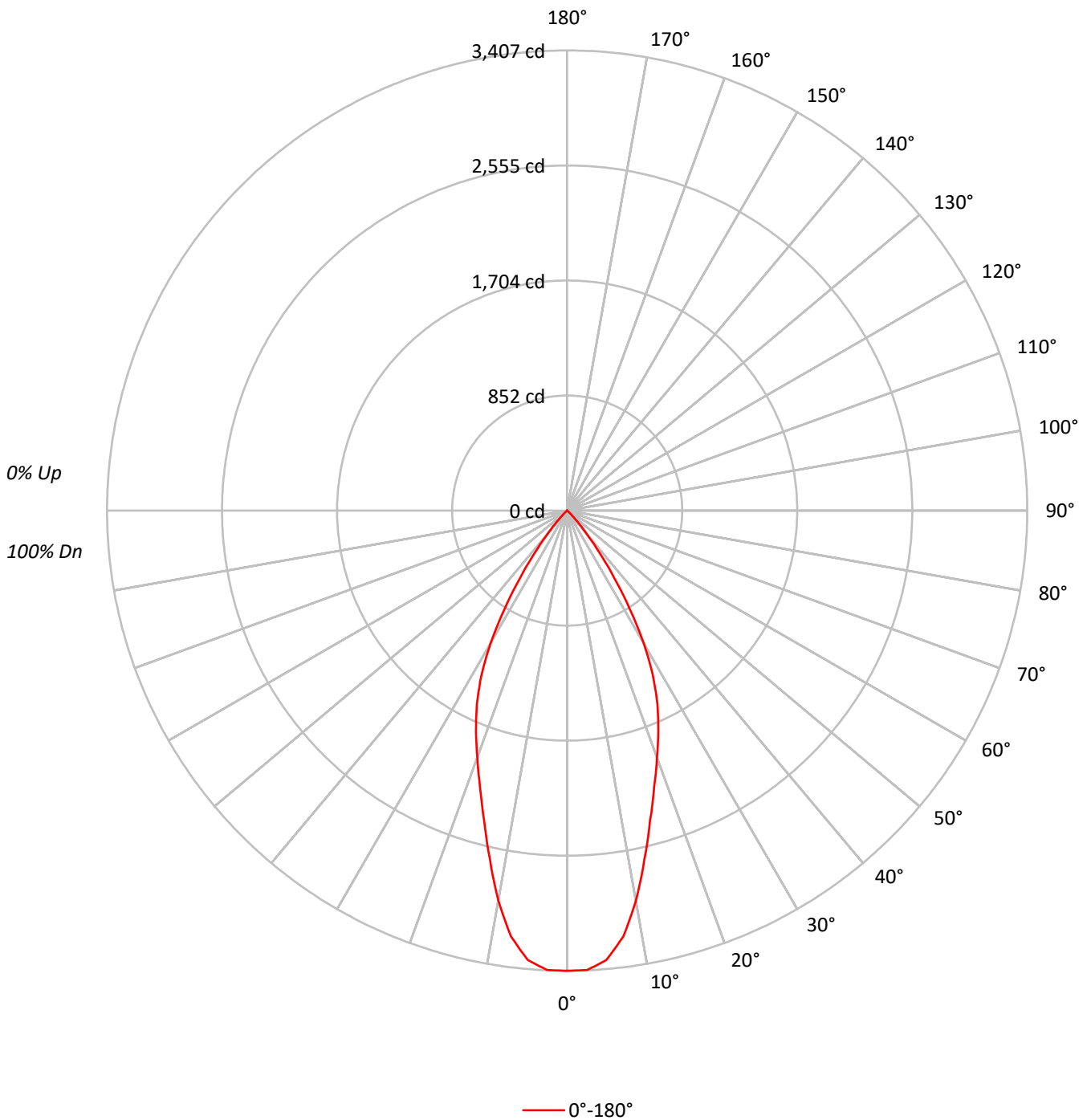
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	114	114	114	114	109	109	109	104	104	104	100	100	100	98
1	111	109	107	105	109	107	105	103	103	101	100	99	98	97	96	95	94	92
2	106	102	98	95	104	100	97	94	97	94	92	94	92	90	92	90	88	87
3	102	96	91	88	100	94	90	87	92	88	86	90	87	84	87	85	83	82
4	97	90	85	81	95	89	84	81	87	83	80	85	82	79	83	80	78	77
5	93	85	80	76	91	84	79	76	82	78	75	81	77	74	79	76	74	72
6	88	80	75	71	87	80	74	71	78	74	70	77	73	70	76	72	69	68
7	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	68	66	64
8	81	72	67	63	80	72	66	63	70	66	63	70	65	62	69	65	62	61
9	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58
10	74	65	60	56	73	65	60	56	64	59	56	63	59	56	63	59	56	55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105062
5°	103381
10°	91857
15°	75788
20°	63803
25°	53830
30°	40300
35°	22794
40°	9001
45°	2425
50°	465
55°	0
60°	62
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°	305.6	14.3	14.0	0°	3407	
10°-20°	666.1	31.2	30.5	5°	3340	306
20°-30°	713.5	33.4	32.7	15°	2374	666
30°-40°	386.7	18.1	17.7	25°	1582	714
40°-50°	60.2	2.8	2.8	35°	606	387
50°-60°	1.6	0.1	0.1	45°	56	60
60°-70°	0.4	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°	1685.2	79.0	77.2	165°	0	0
0°-40°	2071.9	97.1	94.9	175°	0	0
0°-60°	2133.7	100.0	97.7	180°	0	0
0°-90°	2134.1	100.0	97.8			
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°	2134.1	100.0	97.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3407.1
2.5°	3404.3
5°	3339.8
7.5°	3180.6
10°	2933.6
12.5°	2644.5
15°	2374.0
17.5°	2144.5
20°	1944.3
22.5°	1764.6
25°	1582.1
27.5°	1374.9
30°	1131.8
32.5°	863.2
35°	605.5
37.5°	387.8
40°	223.6
42.5°	119.1
45°	55.6
47.5°	30.4
50°	9.7
52.5°	1.0
55°	0.0
57.5°	1.0
60°	1.0
62.5°	0.0
65°	0.0
67.5°	1.0
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)