

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: P246345

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246345
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 EC8B30850 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1801.9 lumens
Efficiency: 95.5%
Efficacy: 66.5 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

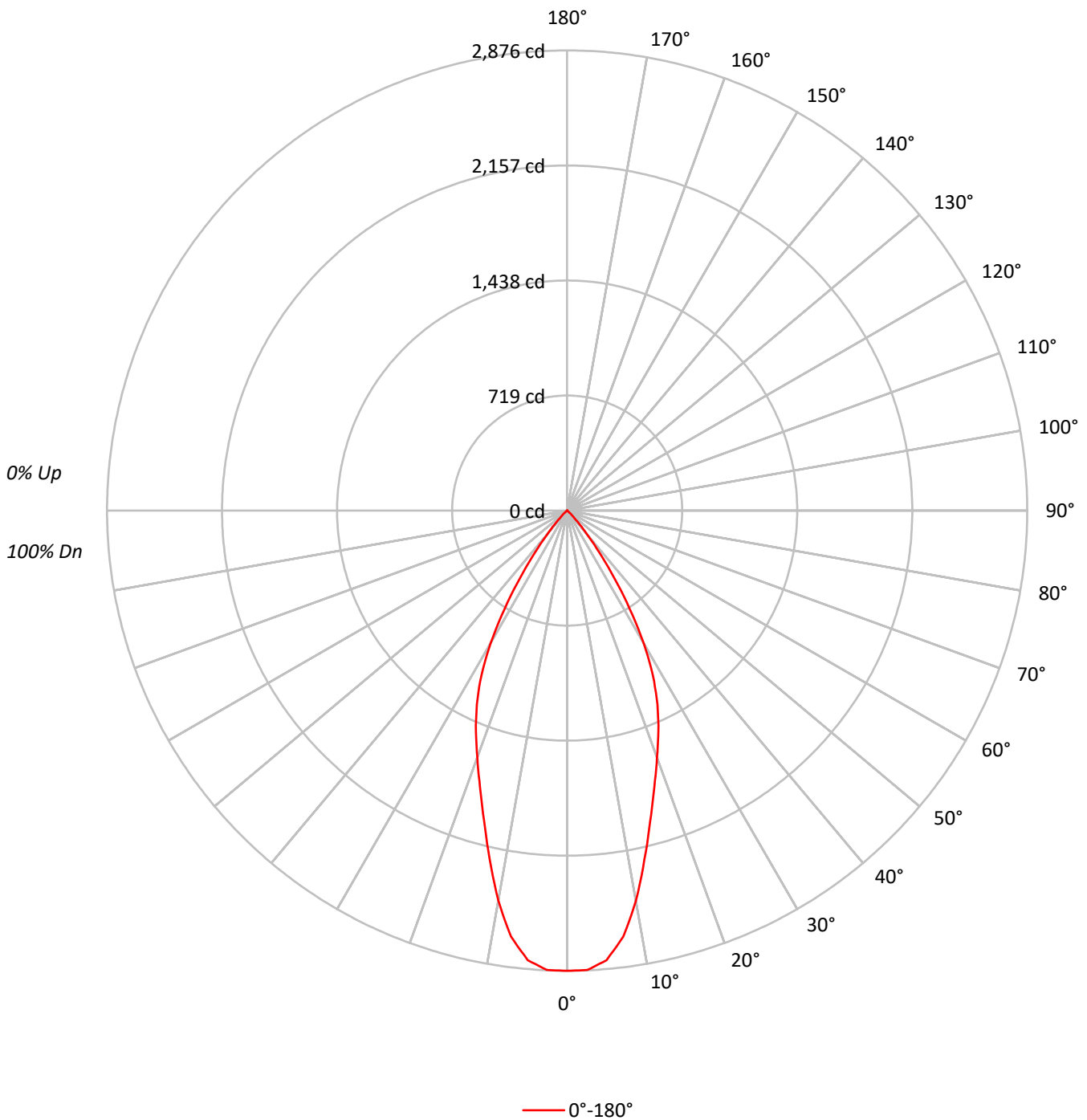
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	111	111	111	111	106	106	106	102	102	102	97	97	97	95
1	109	106	104	102	106	104	102	101	100	99	97	97	96	95	94	93	92	90
2	104	100	96	93	102	98	95	92	95	92	90	92	90	88	90	88	86	85
3	99	94	89	86	97	92	88	85	90	86	84	88	85	82	85	83	81	80
4	95	88	83	79	93	87	82	79	85	81	78	83	80	77	81	79	76	75
5	90	83	78	74	89	82	77	74	80	76	73	79	75	72	77	74	72	71
6	86	78	73	69	85	78	73	69	76	72	69	75	71	68	74	70	68	66
7	82	74	69	65	81	74	69	65	72	68	65	71	67	64	70	67	64	63
8	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	61	59
9	75	67	62	58	74	66	61	58	66	61	58	65	61	58	64	60	57	56
10	72	64	58	55	71	63	58	55	62	58	55	62	58	55	61	57	55	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88694
5°	87294
10°	77547
15°	63985
20°	53876
25°	45443
30°	34036
35°	19251
40°	7604
45°	2032
50°	408
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°	258.0	14.3	13.7	0°	2876	
10°-20°	562.4	31.2	29.8	5°	2820	258
20°-30°	602.5	33.4	31.9	15°	2004	562
30°-40°	326.5	18.1	17.3	25°	1336	602
40°-50°	50.7	2.8	2.7	35°	511	327
50°-60°	1.4	0.1	0.1	45°	47	51
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°	1423.0	79.0	75.4	165°	0	0
0°-40°	1749.5	97.1	92.7	175°	0	0
0°-60°	1801.6	100.0	95.5	180°	0	0
0°-90°	1801.9	100.0	95.5			
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°	1801.9	100.0	95.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2876.3
2.5°	2874.4
5°	2820.1
7.5°	2685.5
10°	2476.6
12.5°	2233.3
15°	2004.3
17.5°	1810.7
20°	1641.8
22.5°	1490.1
25°	1335.6
27.5°	1161.0
30°	955.9
32.5°	728.9
35°	511.4
37.5°	327.3
40°	188.9
42.5°	101.1
45°	46.6
47.5°	24.8
50°	8.5
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)