

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: P245607

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245607
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 EC8B30830 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 2407.0 lumens
Efficiency: 110.3%
Efficacy: 88.8 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

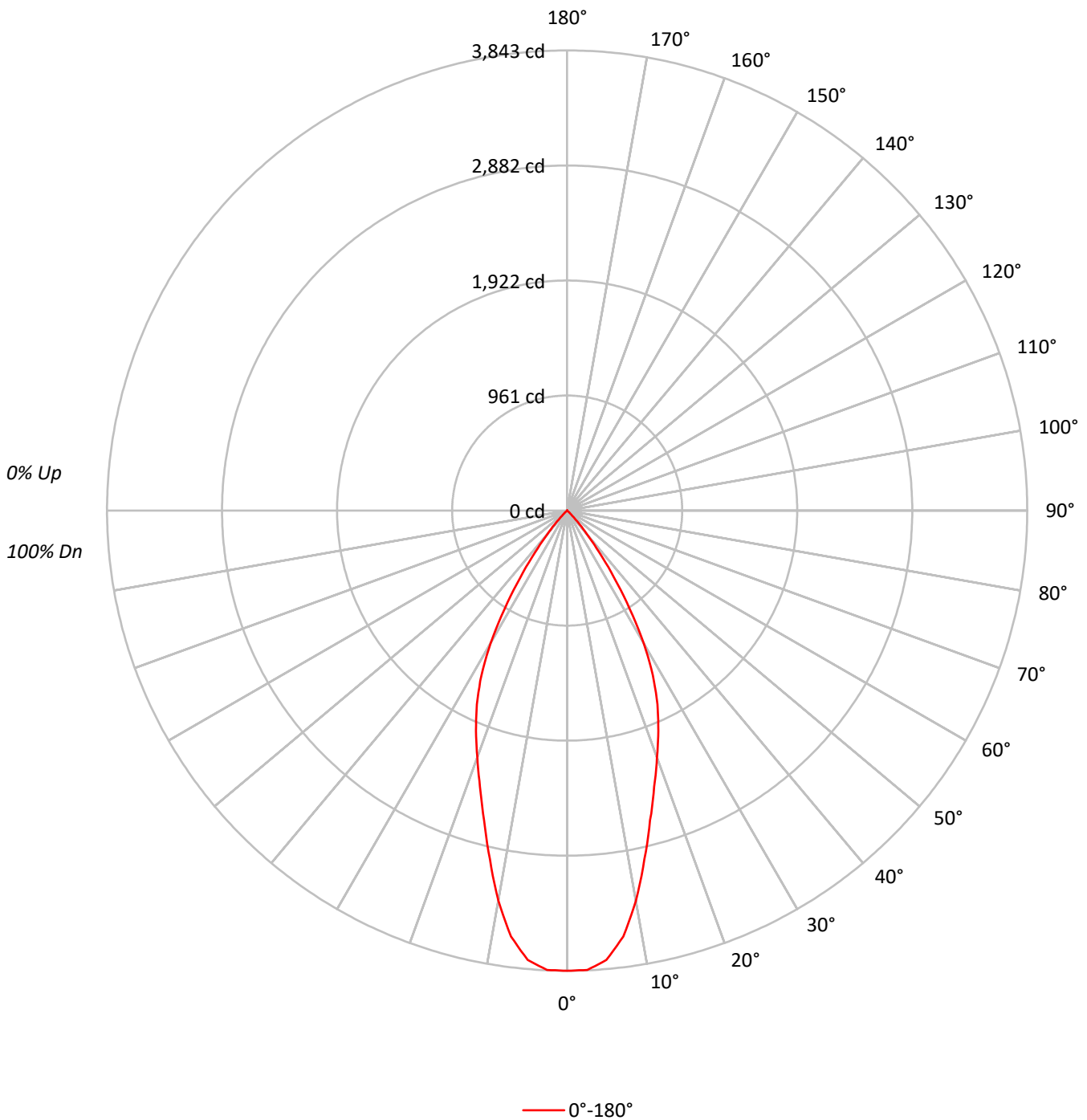
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	131	131	131	131	128	128	128	128	123	123	123	117	117	117	113	113	113	110
1	126	123	120	118	123	120	118	116	116	114	112	112	110	109	108	107	106	104
2	120	115	111	107	118	113	109	106	110	107	104	106	104	102	103	101	100	98
3	115	108	103	99	112	107	102	98	104	100	97	101	98	95	99	96	94	92
4	109	102	96	92	107	100	95	91	98	94	90	96	92	89	94	91	88	87
5	104	96	90	86	103	95	89	85	93	88	84	91	87	84	89	86	83	81
6	100	91	84	80	98	90	84	80	88	83	79	87	82	79	85	81	78	77
7	95	86	80	75	94	85	79	75	84	78	75	82	78	74	81	77	74	72
8	91	81	75	71	90	81	75	71	80	74	71	78	74	70	77	73	70	69
9	87	77	71	67	86	77	71	67	76	70	67	75	70	67	74	70	66	65
10	83	73	68	64	82	73	67	63	72	67	63	71	67	63	71	66	63	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118504
5°	116604
10°	103605
15°	85483
20°	71964
25°	60716
30°	45452
35°	25707
40°	10152
45°	2734
50°	523
55°	0
60°	68
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°	344.7	14.3	15.8	0°	3843	
10°-20°	751.3	31.2	34.4	5°	3767	345
20°-30°	804.8	33.4	36.9	15°	2678	751
30°-40°	436.1	18.1	20.0	25°	1784	805
40°-50°	67.9	2.8	3.1	35°	683	436
50°-60°	1.8	0.1	0.1	45°	63	68
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°	1900.8	79.0	87.1	165°	0	0
0°-40°	2336.9	97.1	107.1	175°	0	0
0°-60°	2406.6	100.0	110.2	180°	0	0
0°-90°	2407.0	100.0	110.3			
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°	2407.0	100.0	110.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3843.0
2.5°	3839.8
5°	3767.0
7.5°	3587.4
10°	3308.8
12.5°	2982.8
15°	2677.7
17.5°	2418.8
20°	2193.0
22.5°	1990.4
25°	1784.5
27.5°	1550.8
30°	1276.5
32.5°	973.7
35°	682.9
37.5°	437.4
40°	252.2
42.5°	134.4
45°	62.7
47.5°	34.3
50°	10.9
52.5°	1.1
55°	0.0
57.5°	1.1
60°	1.1
62.5°	0.0
65°	0.0
67.5°	1.1
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)