

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: P243804

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10830 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1155.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

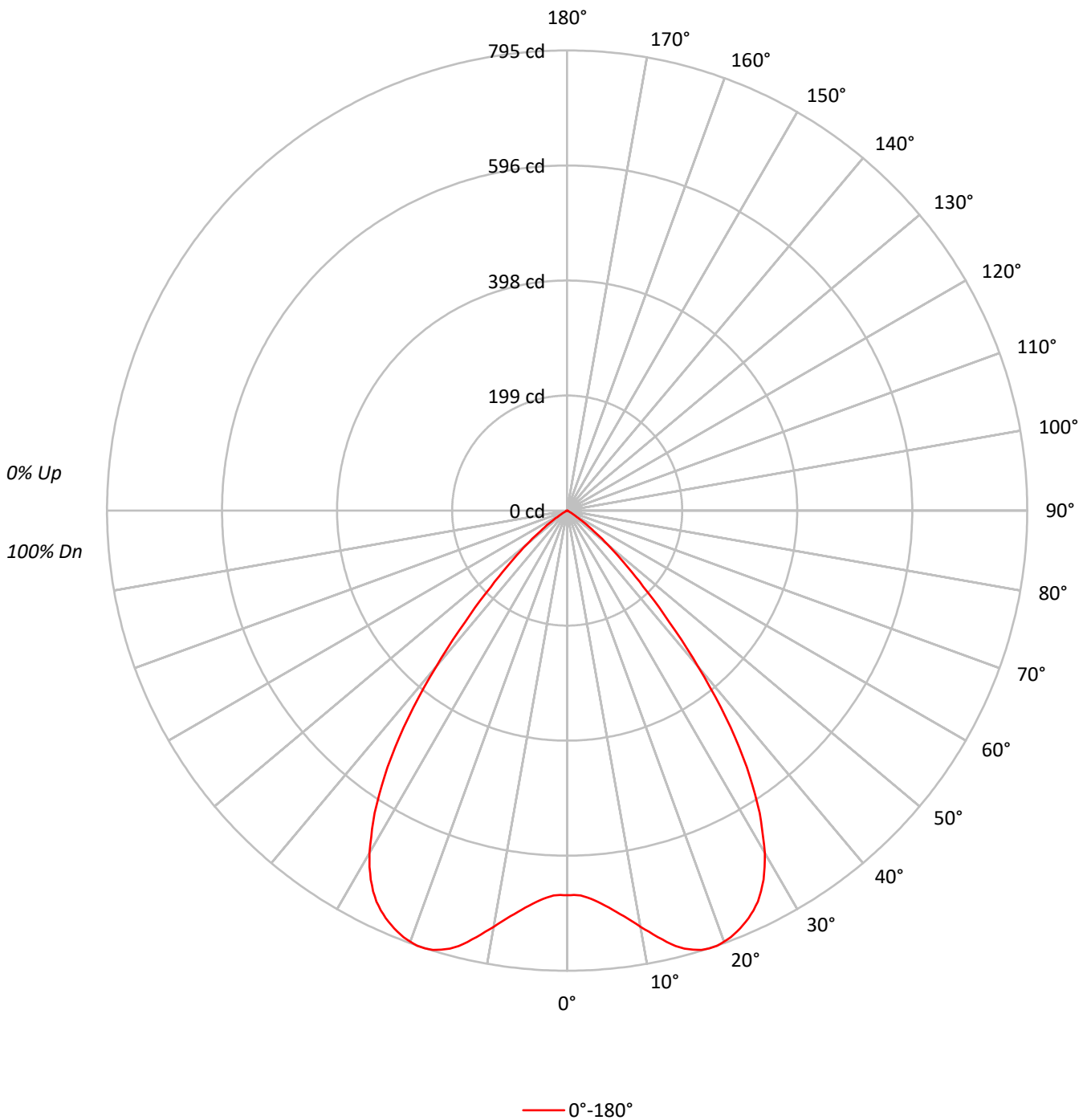
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70					70			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64					64			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54					54			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20494
5°	21098
10°	22858
15°	25009
20°	26016
25°	25923
30°	24316
35°	20388
40°	14198
45°	8129
50°	4366
55°	1801
60°	450
65°	117
70°	54
75°	36
80°	53
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	5.8
10°-20°	220.8	19.1
20°-30°	347.4	30.1
30°-40°	330.5	28.6
40°-50°	152.3	13.2
50°-60°	34.6	3.0
60°-70°	2.3	0.2
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	634.8	55.0
0°-40°	965.3	83.6
0°-60°	1152.2	99.8
0°-90°	1155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	665	
5°	682	67
15°	783	221
25°	762	347
35°	542	330
45°	186	152
55°	34	35
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	664.6
1°	664.2
2°	665.5
3°	669.3
4°	675.0
5°	681.6
6°	689.8
7°	698.7
8°	707.8
9°	718.6
10°	730.0
11°	741.3
12°	753.3
13°	764.7
14°	775.2
15°	783.4
16°	789.4
17°	793.5
18°	795.4
19°	795.1
20°	792.8
21°	789.1
22°	784.3
23°	778.0
24°	770.7
25°	761.9
26°	751.5
27°	738.2
28°	722.4
29°	704.1
30°	682.9
32.5°	619.4
35°	541.6
37.5°	451.3
40°	352.7
42.5°	260.7
45°	186.4
47.5°	132.1
50°	91.0
52.5°	58.1
55°	33.5
57.5°	16.7
60°	7.3
62.5°	2.8
65°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.9
70°	0.6
72.5°	0.6
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)