

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: P250793

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250793
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: LSR8B70D010 EC8B70827 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7453.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

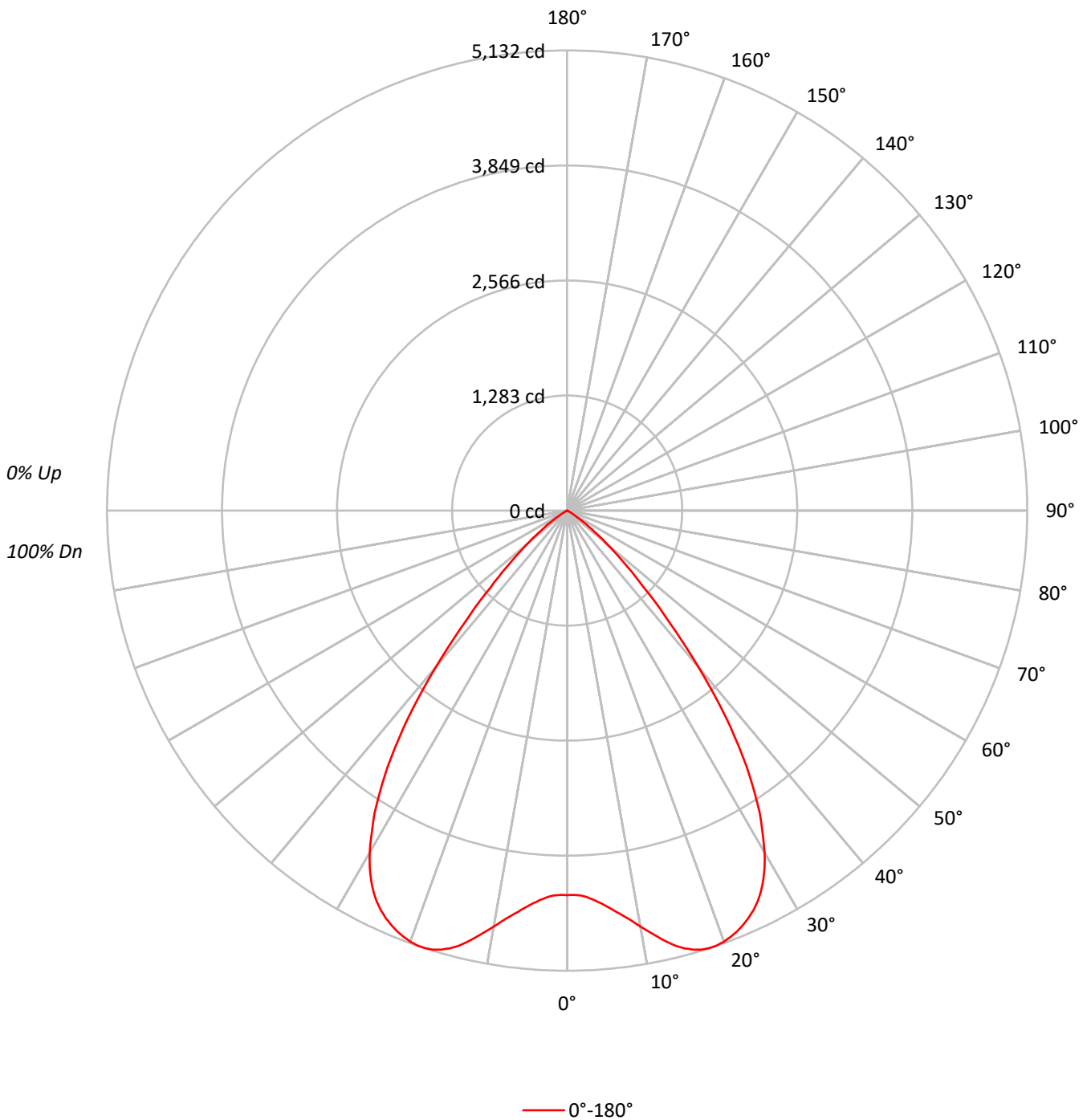
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132232
5°	136145
10°	147489
15°	161373
20°	167886
25°	167273
30°	156901
35°	131566
40°	91602
45°	52466
50°	28174
55°	11618
60°	2892
65°	744
70°	370
75°	238
80°	355
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.0	5.8
10°-20°	1424.7	19.1
20°-30°	2241.7	30.1
30°-40°	2132.3	28.6
40°-50°	983.0	13.2
50°-60°	223.4	3.0
60°-70°	14.7	0.2
70°-80°	2.9	0.0
80°-90°	0.3	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°	4096.3	55.0
0°-40°	6228.7	83.6
0°-60°	7435.1	99.8
0°-90°	7453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7453.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4288	
5°	4398	430
15°	5055	1425
25°	4916	2242
35°	3495	2132
45°	1203	983
55°	216	223
65°	10	15
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4288.2
1°	4286.2
2°	4294.3
3°	4318.8
4°	4355.5
5°	4398.3
6°	4451.4
7°	4508.4
8°	4567.6
9°	4636.9
10°	4710.3
11°	4783.7
12°	4861.2
13°	4934.6
14°	5001.9
15°	5054.9
16°	5093.7
17°	5120.2
18°	5132.4
19°	5130.4
20°	5116.1
21°	5091.6
22°	5061.0
23°	5020.3
24°	4973.4
25°	4916.3
26°	4849.0
27°	4763.3
28°	4661.4
29°	4543.1
30°	4406.5
32.5°	3996.6
35°	3495.0
37.5°	2911.8
40°	2275.6
42.5°	1682.3
45°	1203.1
47.5°	852.3
50°	587.3
52.5°	375.2
55°	216.1
57.5°	108.1
60°	46.9
62.5°	18.4
65°	10.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	6.1
70°	4.1
72.5°	4.1
75°	2.0
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)