

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: P251135

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70840 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6977.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

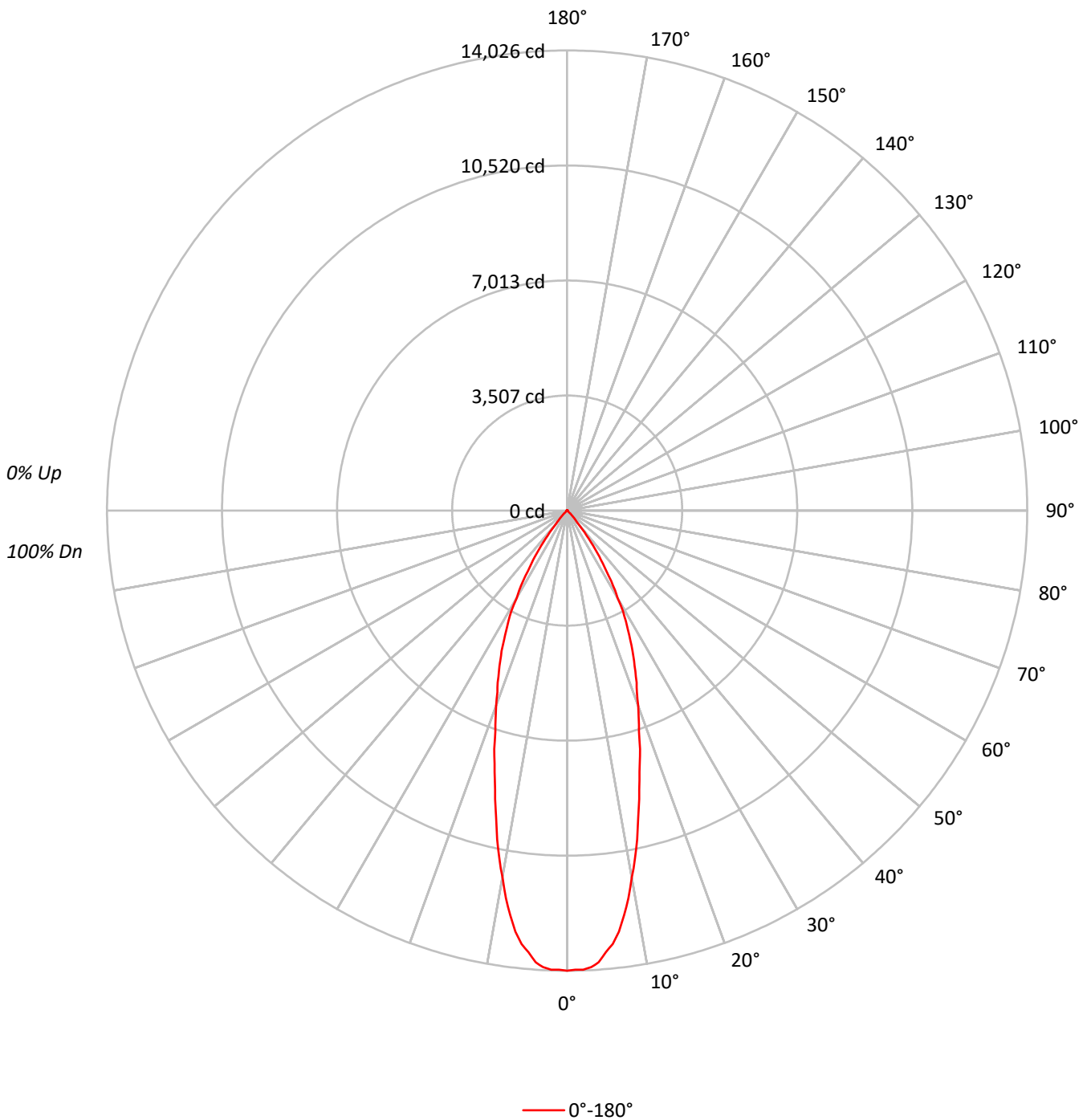
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		92	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74		80	76	74		79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	432495
5°	418246
10°	355692
15°	271479
20°	207478
25°	160778
30°	109658
35°	64424
40°	19700
45°	7749
50°	115
55°	129
60°	148
65°	358
70°	658
75°	584
80°	426
85°	2583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1224.9	17.6
10°-20°	2373.6	34.0
20°-30°	2137.0	30.6
30°-40°	1057.3	15.2
40°-50°	160.8	2.3
50°-60°	6.6	0.1
60°-70°	8.5	0.1
70°-80°	3.2	0.0
80°-90°	5.0	0.1
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°	5735.6	82.2
0°-40°	6792.9	97.4
0°-60°	6960.3	99.8
0°-90°	6977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6977.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14026	
5°	13512	###
15°	8504	2374
25°	4725	2137
35°	1711	1057
45°	178	161
55°	2	7
65°	5	8
75°	5	3
85°	7	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14025.5
1°	13996.3
2°	14003.5
3°	13932.9
4°	13803.9
5°	13511.8
6°	13287.8
7°	12932.4
8°	12455.2
9°	11958.5
10°	11359.6
11°	10824.0
12°	10249.5
13°	9614.0
14°	9066.3
15°	8503.9
16°	8024.2
17°	7600.7
18°	7079.7
19°	6697.4
20°	6322.6
21°	5933.0
22°	5648.1
23°	5317.0
24°	5012.7
25°	4725.4
26°	4387.0
27°	4082.8
28°	3810.1
29°	3510.6
30°	3079.7
31°	2836.3
32°	2529.5
33°	2193.5
34°	1937.9
35°	1711.4
37.5°	1083.3
40°	489.4
42.5°	333.5
45°	177.7
47.5°	99.8
50°	2.4
52.5°	9.8
55°	2.4
57.5°	14.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.4
62.5°	12.2
65°	4.9
67.5°	12.2
70°	7.3
72.5°	2.4
75°	4.9
77.5°	0.0
80°	2.4
82.5°	9.8
85°	7.3
87.5°	0.0
90°	0.0

(END OF REPORT)