

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: P250939

Luminaire Tested: **LSR8B70D010 EC8B70830 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70830 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6556.9 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

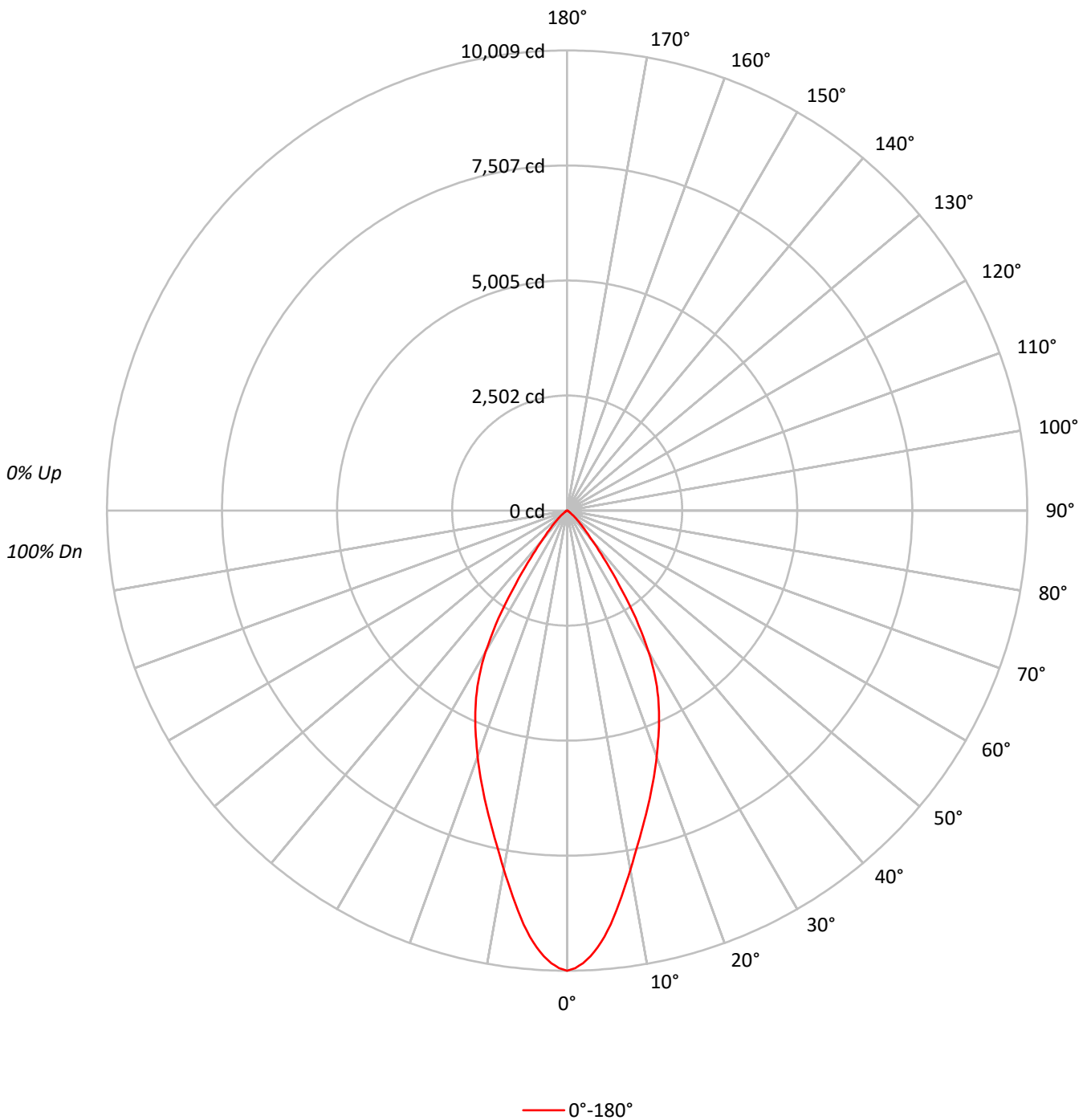
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	308650
5°	287895
10°	248163
15°	214769
20°	186831
25°	160560
30°	126158
35°	73609
40°	33962
45°	17574
50°	8817
55°	4285
60°	2183
65°	1291
70°	595
75°	524
80°	391
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.7	12.8
10°-20°	1881.0	28.7
20°-30°	2138.6	32.6
30°-40°	1256.0	19.2
40°-50°	337.1	5.1
50°-60°	80.0	1.2
60°-70°	18.2	0.3
70°-80°	4.1	0.1
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°	4861.4	74.1
0°-40°	6117.3	93.3
0°-60°	6534.4	99.7
0°-90°	6556.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6556.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10009	
5°	9301	842
15°	6728	1881
25°	4719	2139
35°	1955	1256
45°	403	337
55°	80	80
65°	18	18
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10009.3
1°	9954.0
2°	9852.1
3°	9708.2
4°	9522.1
5°	9300.7
6°	9050.5
7°	8767.0
8°	8483.6
9°	8197.9
10°	7925.5
11°	7659.8
12°	7409.6
13°	7177.0
14°	6944.5
15°	6727.5
16°	6514.9
17°	6304.5
18°	6100.8
19°	5894.9
20°	5693.4
21°	5491.8
22°	5299.2
23°	5108.7
24°	4913.9
25°	4719.0
26°	4517.5
27°	4298.3
28°	4067.9
29°	3815.5
30°	3543.1
32.5°	2779.1
35°	1955.4
37.5°	1288.8
40°	843.7
42.5°	582.4
45°	403.0
47.5°	276.8
50°	183.8
52.5°	119.6
55°	79.7
57.5°	53.1
60°	35.4
62.5°	24.4
65°	17.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	11.1
70°	6.6
72.5°	4.4
75°	4.4
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)