

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: P250064

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250064
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: LSR8B80D010 EC8B80850 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7877.1 lumens
Efficiency: N/A
Efficacy: 105.9 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

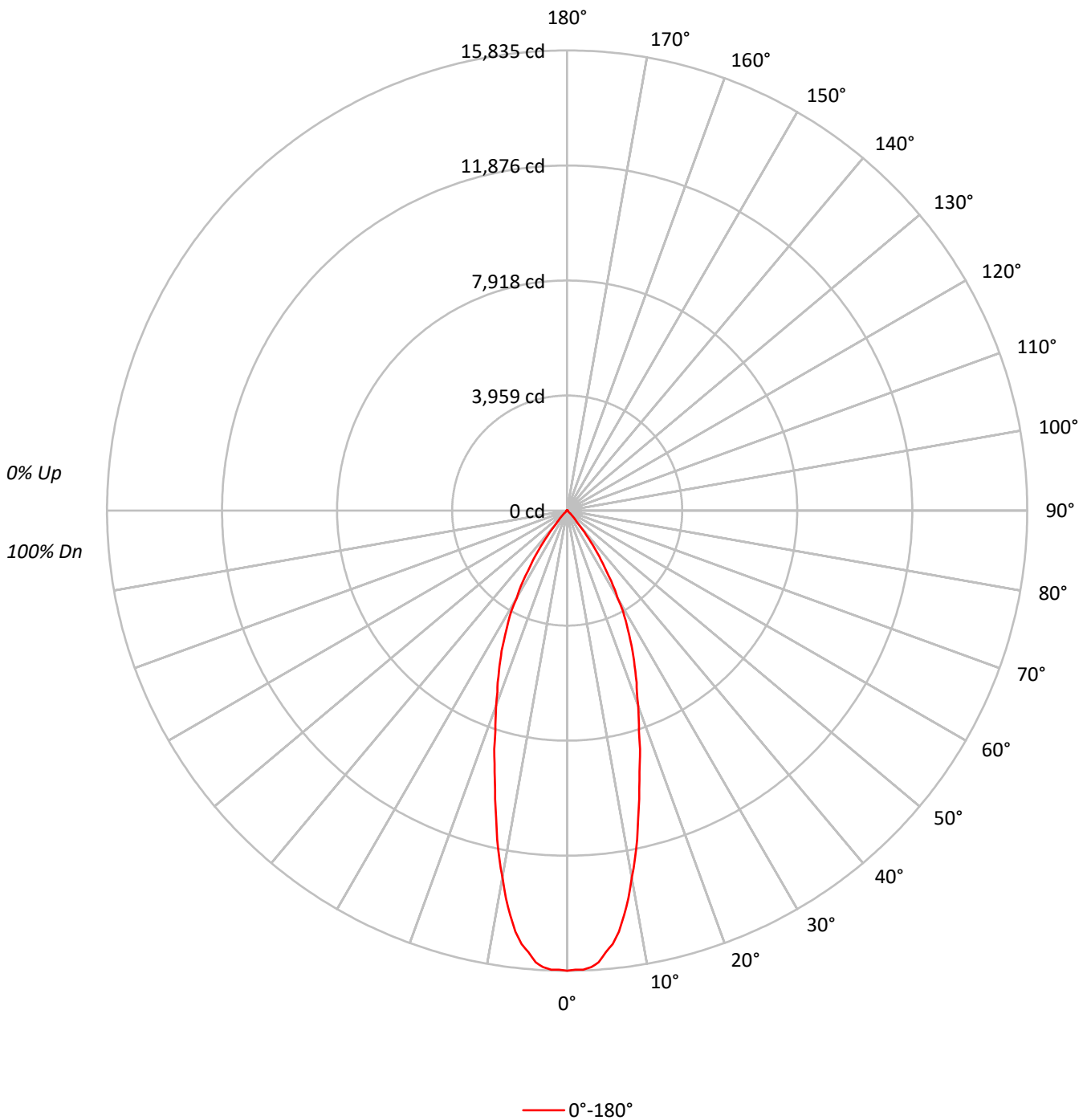
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	488284
5°	472196
10°	401573
15°	306497
20°	234239
25°	181519
30°	123805
35°	72736
40°	22240
45°	8748
50°	134
55°	151
60°	173
65°	401
70°	748
75°	655
80°	497
85°	2937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1382.9	17.6
10°-20°	2679.8	34.0
20°-30°	2412.7	30.6
30°-40°	1193.7	15.2
40°-50°	181.6	2.3
50°-60°	7.5	0.1
60°-70°	9.6	0.1
70°-80°	3.6	0.0
80°-90°	5.6	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°	6475.4	82.2
0°-40°	7669.1	97.4
0°-60°	7858.2	99.8
0°-90°	7877.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7877.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15835	
5°	15255	###
15°	9601	2680
25°	5335	2413
35°	1932	1194
45°	201	182
55°	3	7
65°	6	10
75°	6	4
85°	8	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15834.7
1°	15801.7
2°	15809.9
3°	15730.2
4°	15584.6
5°	15254.7
6°	15001.8
7°	14600.6
8°	14061.9
9°	13501.1
10°	12824.9
11°	12220.3
12°	11571.6
13°	10854.2
14°	10235.8
15°	9600.8
16°	9059.3
17°	8581.1
18°	7992.9
19°	7561.3
20°	7138.1
21°	6698.3
22°	6376.7
23°	6002.9
24°	5659.3
25°	5335.0
26°	4952.9
27°	4609.4
28°	4301.5
29°	3963.4
30°	3477.0
31°	3202.2
32°	2855.8
33°	2476.5
34°	2187.9
35°	1932.2
37.5°	1223.1
40°	552.5
42.5°	376.6
45°	200.6
47.5°	112.7
50°	2.8
52.5°	11.0
55°	2.8
57.5°	16.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.8
62.5°	13.8
65°	5.5
67.5°	13.8
70°	8.3
72.5°	2.8
75°	5.5
77.5°	0.0
80°	2.8
82.5°	11.0
85°	8.3
87.5°	0.0
90°	0.0

(END OF REPORT)