

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: P249896

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8243.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

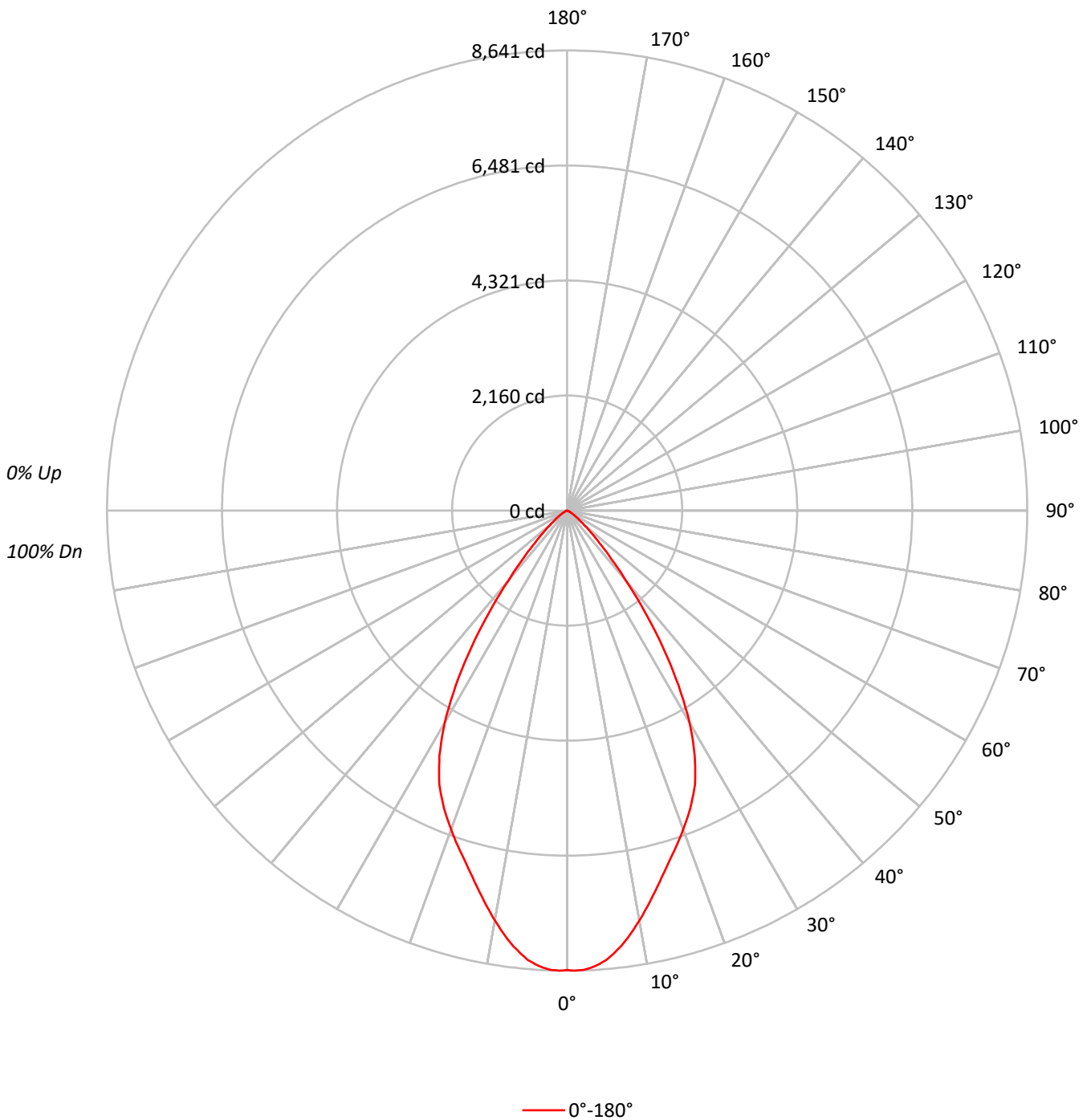
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	266050
5°	262132
10°	244635
15°	224548
20°	209135
25°	193223
30°	163855
35°	117875
40°	69438
45°	37111
50°	19362
55°	10919
60°	6025
65°	3561
70°	1623
75°	917
80°	462
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.6	9.5
10°-20°	1979.0	24.0
20°-30°	2569.1	31.2
30°-40°	1939.1	23.5
40°-50°	709.6	8.6
50°-60°	198.3	2.4
60°-70°	52.1	0.6
70°-80°	8.8	0.1
80°-90°	0.4	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°	5334.7	64.7
0°-40°	7273.8	88.2
0°-60°	8181.7	99.3
0°-90°	8243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8243.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8628	
5°	8468	787
15°	7034	1979
25°	5679	2569
35°	3131	1939
45°	851	710
55°	203	198
65°	49	52
75°	8	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8627.8
1°	8640.6
2°	8630.3
3°	8596.9
4°	8540.4
5°	8468.4
6°	8363.0
7°	8247.3
8°	8113.6
9°	7967.1
10°	7812.8
11°	7658.6
12°	7499.2
13°	7337.2
14°	7183.0
15°	7033.8
16°	6892.5
17°	6756.2
18°	6632.8
19°	6504.3
20°	6373.1
22.5°	6046.6
25°	5679.0
27.5°	5193.1
30°	4601.8
32.5°	3889.7
35°	3131.3
37.5°	2390.9
40°	1725.0
42.5°	1221.2
45°	851.0
47.5°	599.0
50°	403.6
52.5°	295.6
55°	203.1
57.5°	146.5
60°	97.7
62.5°	72.0
65°	48.8
67.5°	33.4
70°	18.0
72.5°	12.9
75°	7.7
77.5°	2.6
80°	2.6



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)