

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: P246982

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBM0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-81)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80940 8LBM0LI
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7662.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.75
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

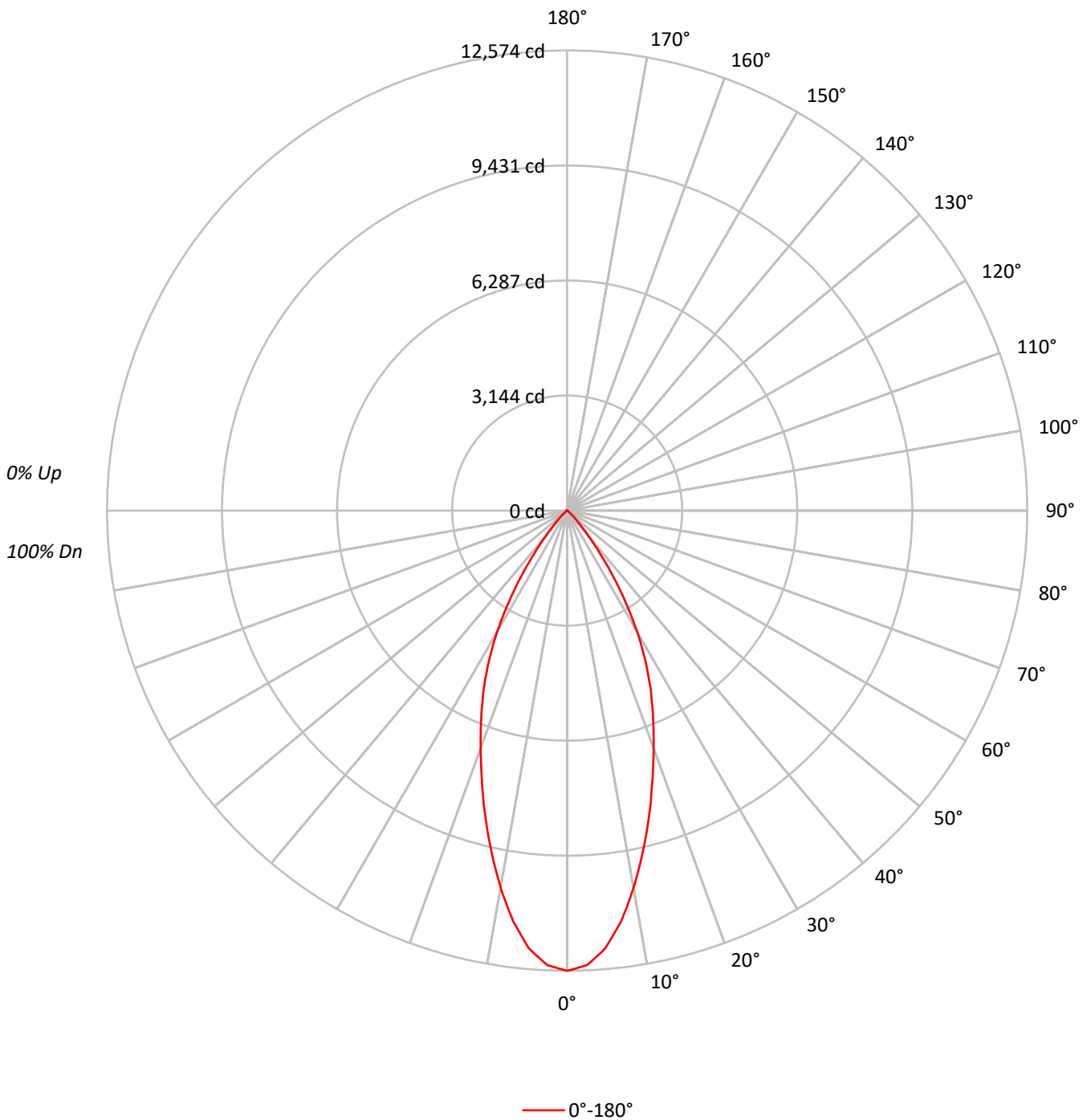
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	387723
5°	371558
10°	327630
15°	276112
20°	226705
25°	183747
30°	136032
35°	81884
40°	36466
45°	14177
50°	5085
55°	1484
60°	1042
65°	781
70°	81
75°	429
80°	0
85°	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1095.9	14.3
10°-20°	2402.3	31.4
20°-30°	2450.0	32.0
30°-40°	1372.1	17.9
40°-50°	292.6	3.8
50°-60°	36.2	0.5
60°-70°	9.5	0.1
70°-80°	2.3	0.0
80°-90°	1.2	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°	5948.1	77.6
0°-40°	7320.2	95.5
0°-60°	7649.1	99.8
0°-90°	7662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7662.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12574	
5°	12004	###
15°	8649	2402
25°	5400	2450
35°	2175	1372
45°	325	293
55°	28	36
65°	11	9
75°	4	2
85°	4	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12573.6
2.5°	12432.0
5°	12003.5
7.5°	11314.1
10°	10463.4
12.5°	9550.4
15°	8649.0
17.5°	7742.3
20°	6908.5
22.5°	6132.7
25°	5400.5
27.5°	4631.8
30°	3820.4
32.5°	2972.4
35°	2175.2
37.5°	1457.2
40°	905.9
42.5°	541.6
45°	325.1
47.5°	180.8
50°	106.0
52.5°	56.1
55°	27.6
57.5°	19.6
60°	16.9
62.5°	8.0
65°	10.7
67.5°	10.7
70°	0.9
72.5°	2.7
75°	3.6
77.5°	1.8
80°	0.0
82.5°	0.9
85°	3.6
87.5°	0.0
90°	0.0

(END OF REPORT)