

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: P246704

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20850 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2204.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

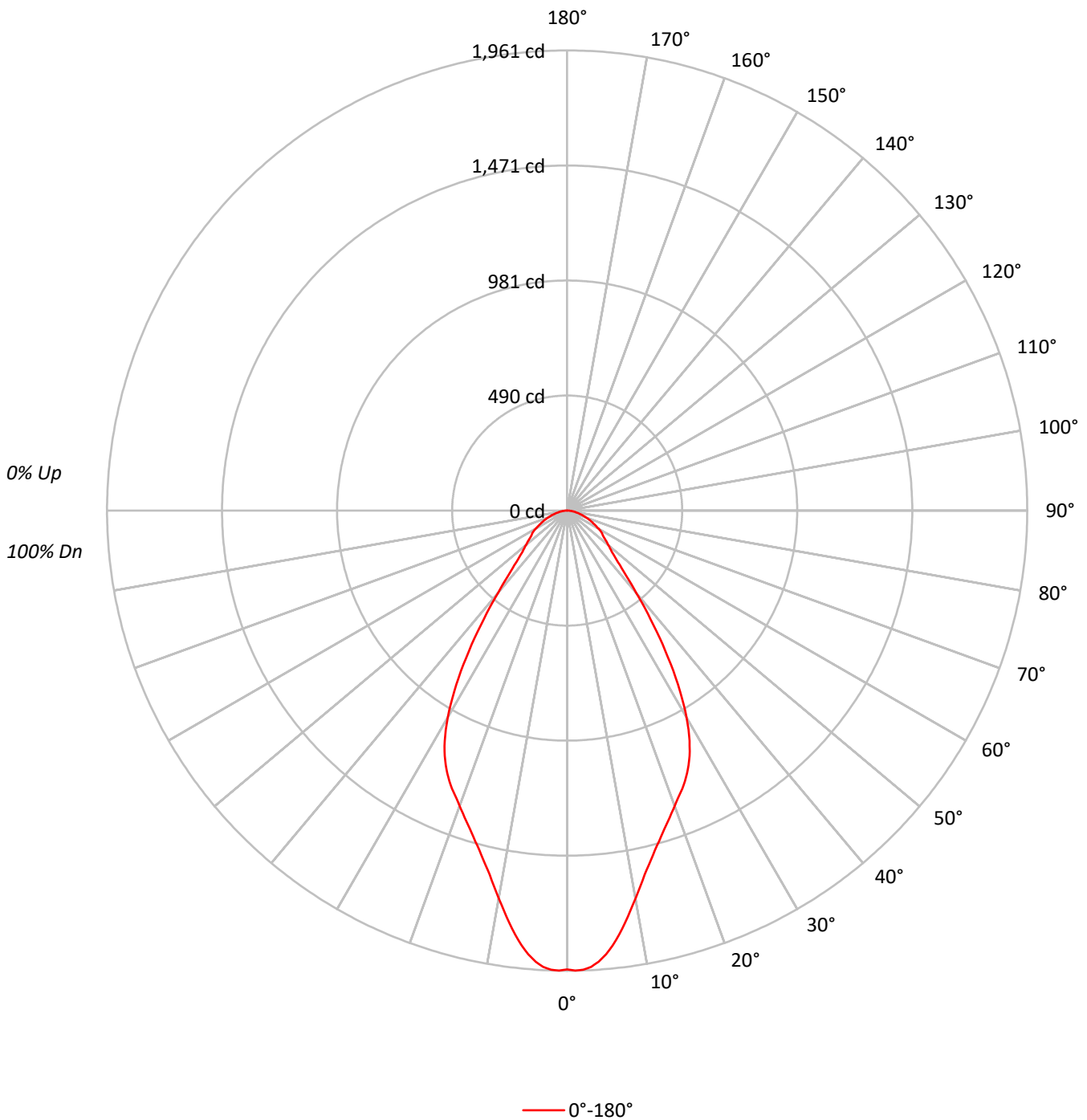
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60288
5°	58760
10°	52532
15°	47206
20°	43963
25°	41414
30°	36212
35°	27439
40°	18428
45°	12991
50°	11015
55°	10043
60°	9516
65°	8559
70°	7700
75°	6922
80°	6091
85°	5873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	7.9
10°-20°	417.0	18.9
20°-30°	552.6	25.1
30°-40°	453.1	20.6
40°-50°	241.4	11.0
50°-60°	169.9	7.7
60°-70°	117.2	5.3
70°-80°	61.0	2.8
80°-90°	18.1	0.8
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°	1143.4	51.9
0°-40°	1596.5	72.4
0°-60°	2007.8	91.1
0°-90°	2204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1955	
5°	1898	174
15°	1479	417
25°	1217	553
35°	729	453
45°	298	241
55°	187	170
65°	117	117
75°	58	61
85°	17	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1955.1
1°	1960.7
2°	1958.3
3°	1946.7
4°	1926.9
5°	1898.3
6°	1862.7
7°	1819.8
8°	1773.8
9°	1724.9
10°	1677.7
11°	1632.4
12°	1586.5
13°	1548.2
14°	1511.9
15°	1478.7
16°	1447.5
17°	1418.6
18°	1391.9
19°	1365.2
20°	1339.7
21°	1314.7
22°	1293.1
23°	1270.8
24°	1244.7
25°	1217.2
26°	1186.1
27°	1150.9
28°	1111.3
29°	1067.4
30°	1017.0
31°	964.1
32°	908.6
33°	849.4
34°	789.9
35°	728.9
37.5°	584.0
40°	457.8
42.5°	361.5
45°	297.9
47.5°	255.8
50°	229.6
52.5°	206.7
55°	186.8
57.5°	174.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	154.3
62.5°	134.6
65°	117.3
67.5°	102.1
70°	85.4
72.5°	71.3
75°	58.1
77.5°	42.1
80°	34.3
82.5°	24.9
85°	16.6
87.5°	7.7
90°	0.0

(END OF REPORT)