

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: P243842

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20935 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1971.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

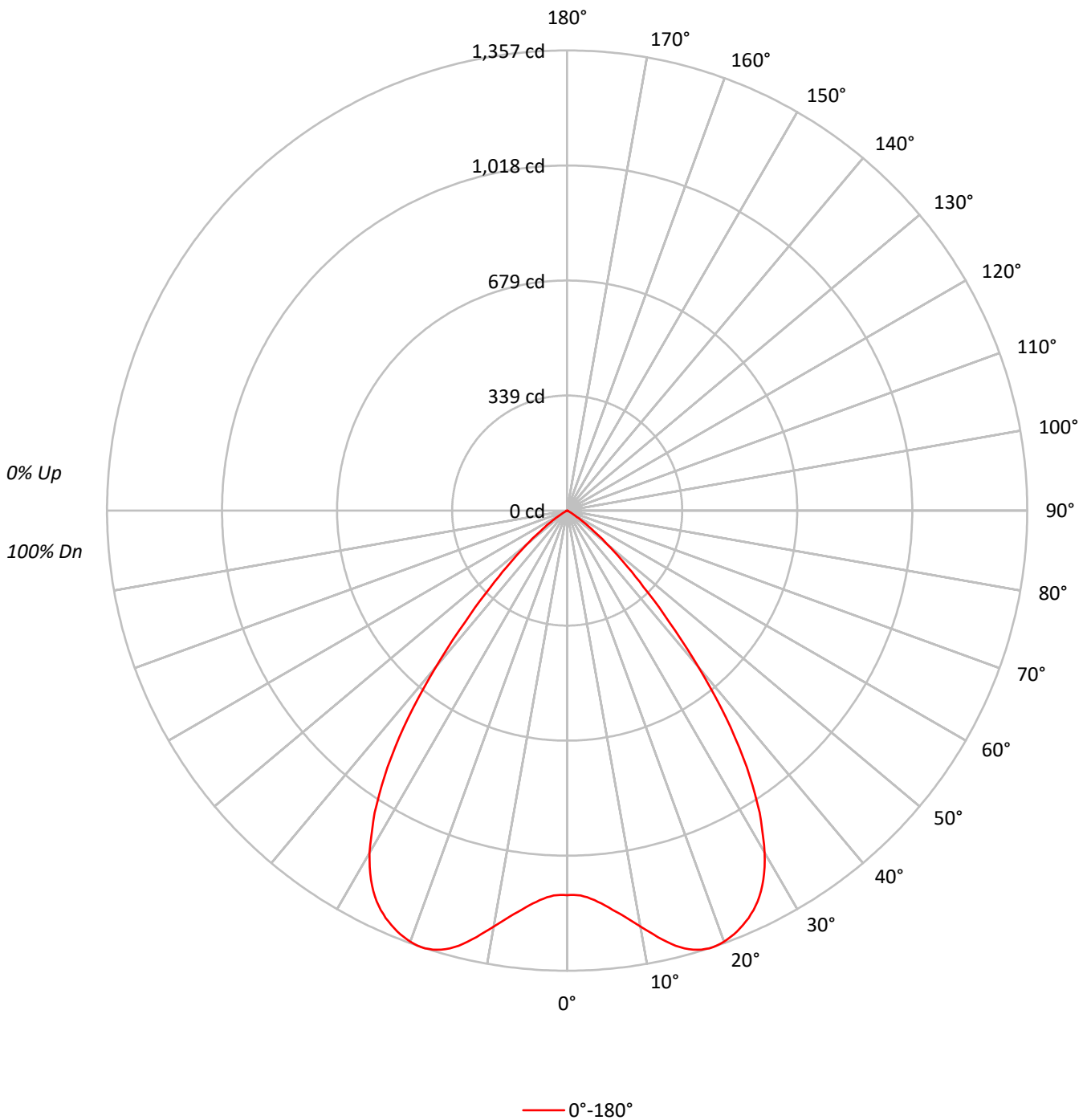
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34971
5°	36006
10°	39005
15°	42676
20°	44399
25°	44235
30°	41492
35°	34795
40°	24225
45°	13876
50°	7450
55°	3075
60°	765
65°	197
70°	99
75°	60
80°	89
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	5.8
10°-20°	376.8	19.1
20°-30°	592.8	30.1
30°-40°	563.9	28.6
40°-50°	260.0	13.2
50°-60°	59.1	3.0
60°-70°	3.9	0.2
70°-80°	0.8	0.0
80°-90°	0.1	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°	1083.3	55.0
0°-40°	1647.2	83.6
0°-60°	1966.3	99.8
0°-90°	1971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1971.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1134	
5°	1163	114
15°	1337	377
25°	1300	593
35°	924	564
45°	318	260
55°	57	59
65°	3	4
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1134.1
1°	1133.5
2°	1135.7
3°	1142.1
4°	1151.8
5°	1163.2
6°	1177.2
7°	1192.3
8°	1207.9
9°	1226.3
10°	1245.7
11°	1265.1
12°	1285.6
13°	1305.0
14°	1322.8
15°	1336.8
16°	1347.1
17°	1354.1
18°	1357.3
19°	1356.8
20°	1353.0
21°	1346.5
22°	1338.4
23°	1327.6
24°	1315.2
25°	1300.1
26°	1282.3
27°	1259.7
28°	1232.7
29°	1201.5
30°	1165.3
32.5°	1056.9
35°	924.3
37.5°	770.1
40°	601.8
42.5°	444.9
45°	318.2
47.5°	225.4
50°	155.3
52.5°	99.2
55°	57.2
57.5°	28.6
60°	12.4
62.5°	4.9
65°	2.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.6
70°	1.1
72.5°	1.1
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)