

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: P246536

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20827 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2087.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

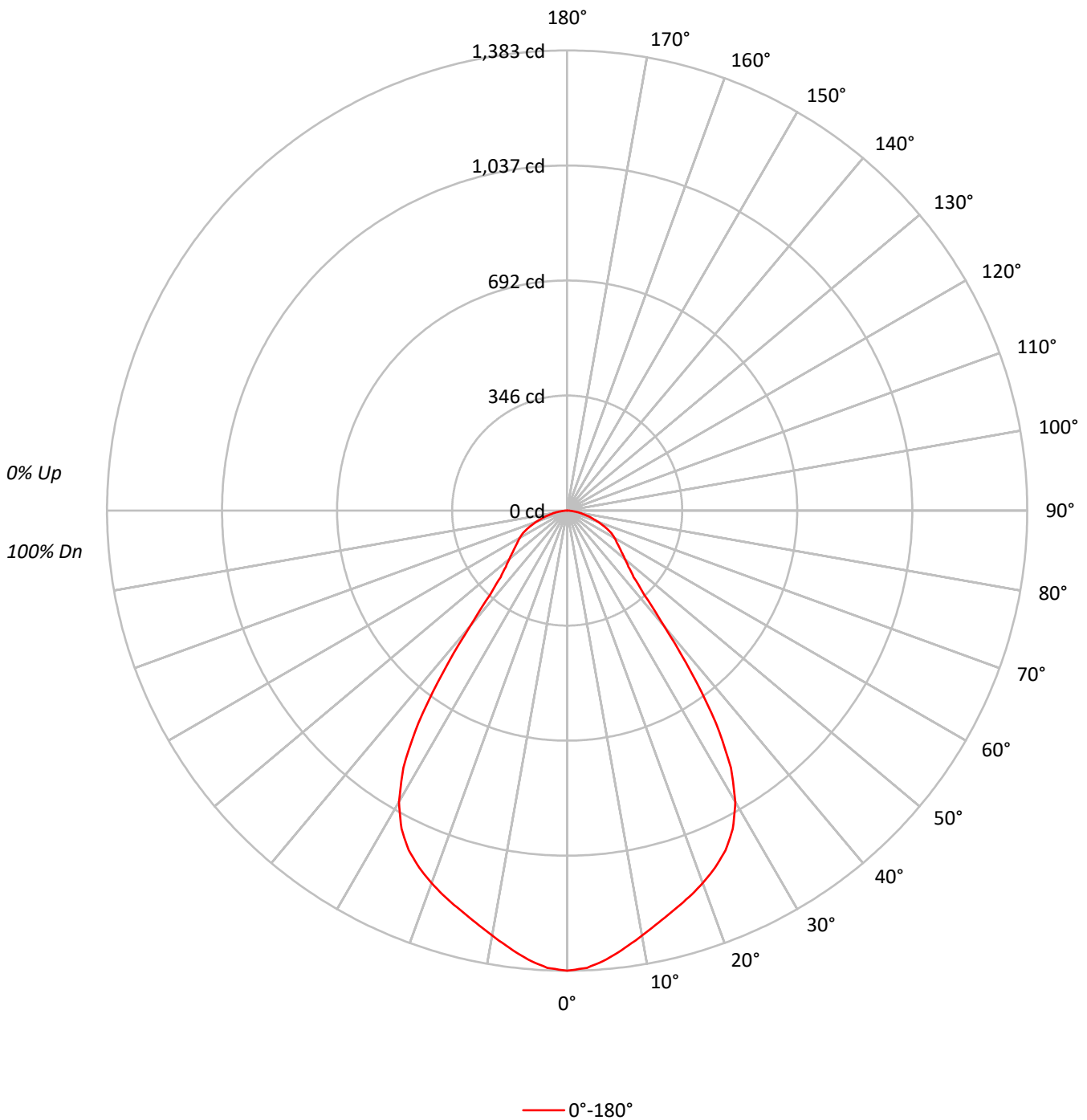
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54		63	58	53		62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49		59	53	49		57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42640
5°	41921
10°	40602
15°	39666
20°	39099
25°	38332
30°	35991
35°	29378
40°	18199
45°	12324
50°	10861
55°	10247
60°	10164
65°	9850
70°	8836
75°	7649
80°	6464
85°	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	6.1
10°-20°	350.9	16.8
20°-30°	514.6	24.7
30°-40°	470.4	22.5
40°-50°	232.9	11.2
50°-60°	172.2	8.3
60°-70°	132.4	6.3
70°-80°	69.0	3.3
80°-90°	17.2	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°	992.9	47.6
0°-40°	1463.3	70.1
0°-60°	1868.4	89.5
0°-90°	2087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1383	
5°	1354	127
15°	1242	351
25°	1127	515
35°	780	470
45°	283	233
55°	191	172
65°	135	132
75°	64	69
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1382.8
2.5°	1375.5
5°	1354.3
7.5°	1325.9
10°	1296.7
12.5°	1268.3
15°	1242.5
17.5°	1218.0
20°	1191.5
22.5°	1161.7
25°	1126.6
27.5°	1078.3
30°	1010.8
32.5°	916.1
35°	780.4
37.5°	612.3
40°	452.1
42.5°	342.2
45°	282.6
47.5°	250.2
50°	226.4
52.5°	207.2
55°	190.6
57.5°	176.7
60°	164.8
62.5°	152.2
65°	135.0
67.5°	116.5
70°	98.0
72.5°	80.8
75°	64.2
77.5°	49.6
80°	36.4
82.5°	25.2
85°	14.6
87.5°	5.3
90°	0.0

(END OF REPORT)