

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: P244250

Luminaire Tested: **LSR8B20D010 EC8B20840 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20840 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2166.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

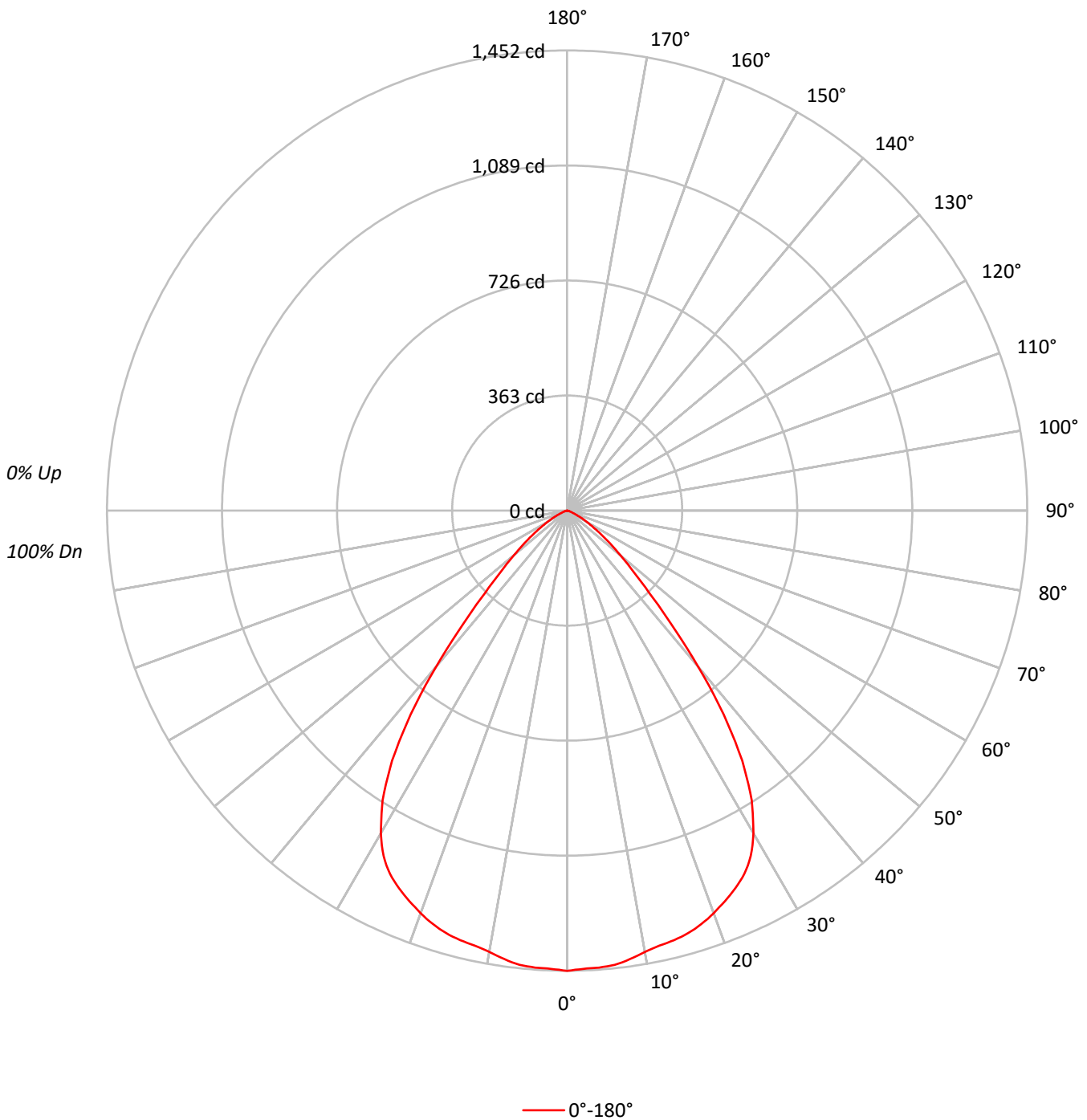
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	71		77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65		73	68	64		71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59		68	62	58		66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49		58	53	49		57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46		55	49	45		54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42		51	46	42		50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44787
5°	44685
10°	44281
15°	44448
20°	44353
25°	43922
30°	41863
35°	36244
40°	25855
45°	15887
50°	10482
55°	6935
60°	4440
65°	2422
70°	1181
75°	596
80°	337
85°	212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	6.3
10°-20°	392.7	18.1
20°-30°	591.0	27.3
30°-40°	585.1	27.0
40°-50°	297.3	13.7
50°-60°	119.8	5.5
60°-70°	36.3	1.7
70°-80°	6.2	0.3
80°-90°	0.8	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°	1120.5	51.7
0°-40°	1705.6	78.7
0°-60°	2122.7	98.0
0°-90°	2166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2166.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1452	
5°	1444	137
15°	1392	393
25°	1291	591
35°	963	585
45°	364	297
55°	129	120
65°	33	36
75°	5	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1452.4
1°	1449.3
2°	1446.8
3°	1446.1
4°	1445.5
5°	1443.6
6°	1441.1
7°	1436.1
8°	1428.6
9°	1421.7
10°	1414.2
11°	1407.9
12°	1403.6
13°	1400.4
14°	1396.7
15°	1392.3
16°	1386.7
17°	1379.8
18°	1371.6
19°	1362.2
20°	1351.6
21°	1340.3
22°	1329.1
23°	1317.2
24°	1304.6
25°	1290.9
26°	1275.8
27°	1256.4
28°	1233.9
29°	1207.0
30°	1175.7
32.5°	1084.3
35°	962.8
37.5°	811.3
40°	642.3
42.5°	485.2
45°	364.3
47.5°	278.6
50°	218.5
52.5°	169.7
55°	129.0
57.5°	95.8
60°	72.0
62.5°	51.3
65°	33.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	20.7
70°	13.1
72.5°	8.1
75°	5.0
77.5°	3.1
80°	1.9
82.5°	1.3
85°	0.6
87.5°	0.0
90°	0.0

(END OF REPORT)