

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: P245720

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBM0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201629)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20940 8LBM0GPH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

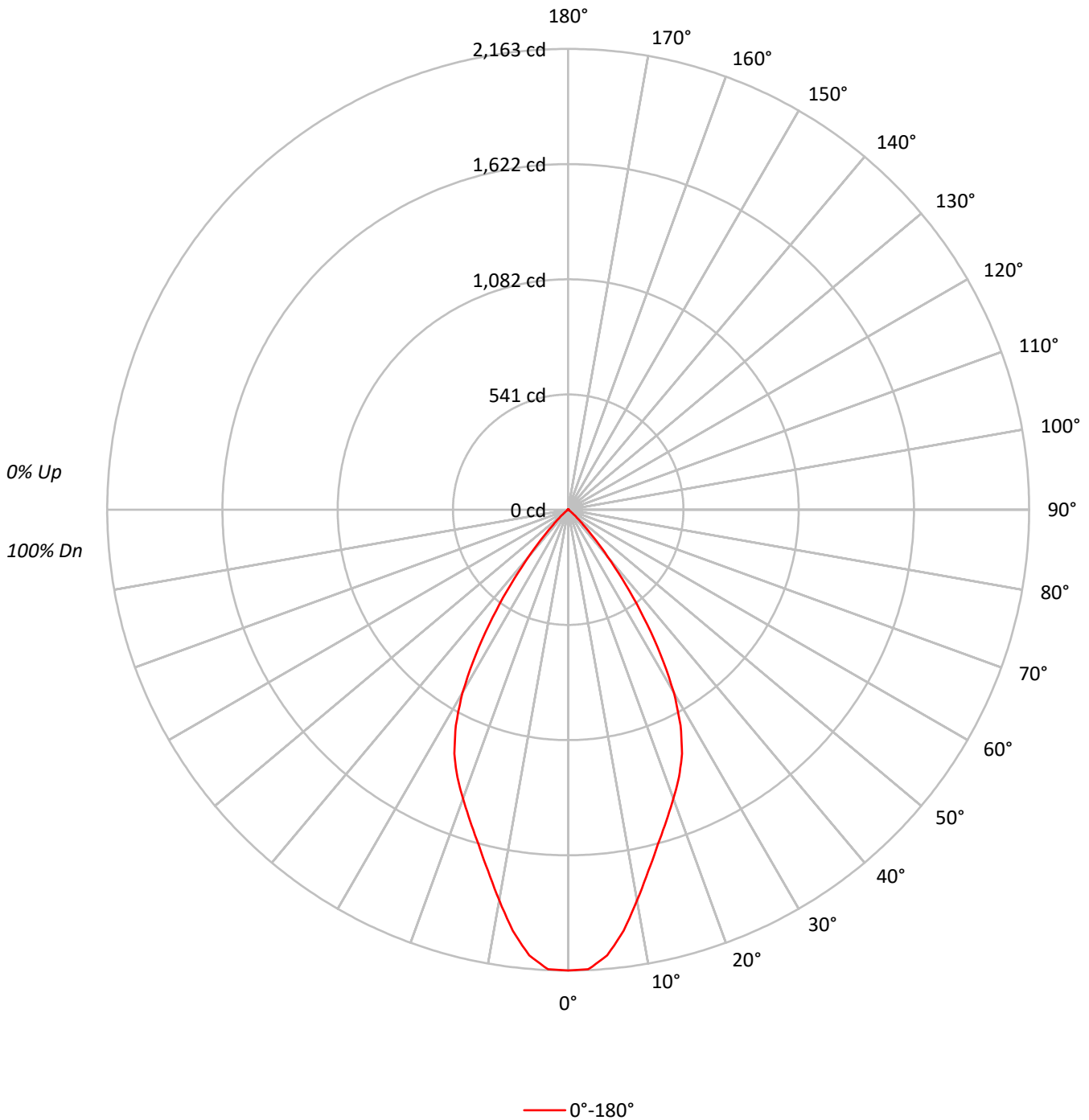
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245720

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBM0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P245720

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBM0GPH

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	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66690
5°	64997
10°	58281
15°	51896
20°	47353
25°	43003
30°	35265
35°	23223
40°	11573
45°	4304
50°	1310
55°	145
60°	86
65°	0
70°	63
75°	250
80°	0
85°	248



TEST NUMBER: P245720

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBM0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	11.3
10°-20°	457.8	26.8
20°-30°	570.2	33.4
30°-40°	384.8	22.6
40°-50°	90.9	5.3
50°-60°	6.6	0.4
60°-70°	1.1	0.1
70°-80°	0.8	0.0
80°-90°	0.2	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°	1220.5	71.6
0°-40°	1605.3	94.2
0°-60°	1702.8	99.9
0°-90°	1705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2163	
5°	2100	193
15°	1626	458
25°	1264	570
35°	617	385
45°	99	91
55°	3	7
65°	0	1
75°	2	1
85°	1	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P245720

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBM0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	2162.7
2.5°	2159.3
5°	2099.8
7.5°	1992.8
10°	1861.3
12.5°	1736.1
15°	1625.6
17.5°	1530.4
20°	1443.0
22.5°	1358.4
25°	1263.9
27.5°	1140.8
30°	990.4
32.5°	808.6
35°	616.9
37.5°	441.4
40°	287.5
42.5°	172.0
45°	98.7
47.5°	55.3
50°	27.3
52.5°	12.6
55°	2.7
57.5°	0.7
60°	1.4
62.5°	2.1
65°	0.0
67.5°	1.4
70°	0.7
72.5°	0.7
75°	2.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.7
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P245720

CATALOG NUMBER: LSR8B20D010 EC8B20940 8LBM0GPH

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)