

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: P247605

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6947.0 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

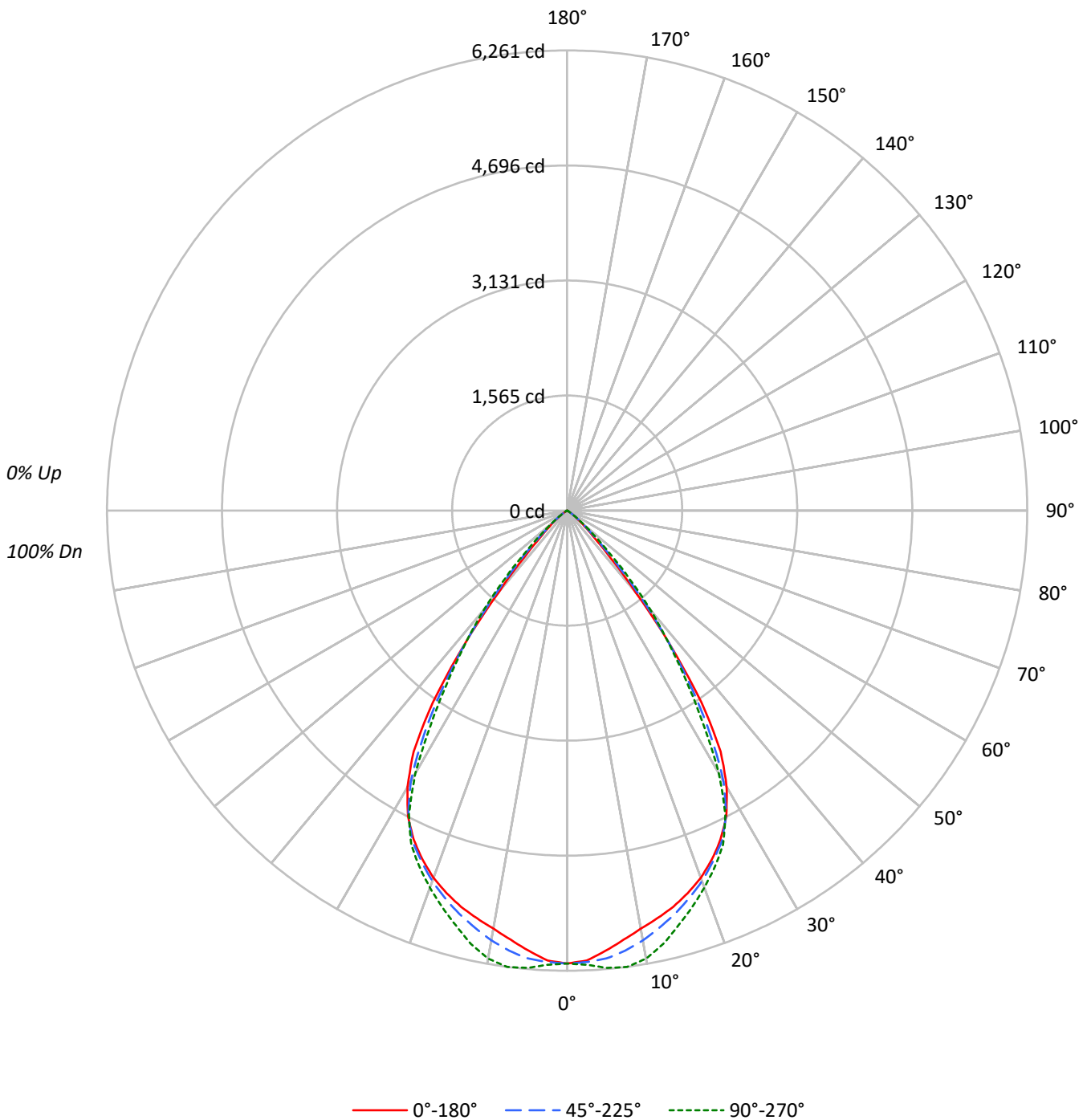
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95					93				
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88					86				
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81					79				
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75					73				
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69					68				
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64					63				
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60					58				
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55					54				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52					50				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48					47				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	190010	190010	190010
5°	186108	189374	193339
10°	180864	185899	193806
15°	178105	181271	186606
20°	174459	176067	179119
25°	168021	169219	170713
30°	154590	151592	147120
35°	119788	111604	106025
40°	58203	66041	70746
45°	22515	28983	35114
50°	10544	12051	13802
55°	4392	4726	4860
60°	1474	1394	1320
65°	182	277	277
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.2	8.3
10°-20°	1602.9	23.1
20°-30°	2258.6	32.5
30°-40°	1827.2	26.3
40°-50°	580.1	8.4
50°-60°	92.7	1.3
60°-70°	6.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4440.6	63.9
0°-40°	6267.9	90.2
0°-60°	6940.7	99.9
0°-90°	6947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6162	6162	6162	6162	6162	
5°	6012	6040	6118	6207	6246	566
15°	5579	5600	5678	5786	5845	1571
25°	4938	4947	4974	5001	5017	2255
35°	3182	3095	2965	2858	2816	1887
45°	516	558	665	759	805	481
55°	82	83	88	92	90	85
65°	2	4	4	4	4	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6161.9	6161.9	6161.9	6161.9	6161.9
2.5°	6126.7	6133.0	6148.0	6176.9	6185.7
5°	6012.4	6040.0	6117.9	6207.1	6246.0
7.5°	5889.2	5925.7	6040.0	6190.7	6261.1
10°	5776.2	5815.1	5937.0	6097.8	6189.5
12.5°	5680.7	5710.9	5810.1	5954.6	6040.0
15°	5579.0	5600.3	5678.2	5786.2	5845.3
17.5°	5457.1	5475.9	5527.5	5611.6	5656.8
20°	5316.4	5321.4	5365.4	5419.4	5458.4
22.5°	5141.8	5146.8	5171.9	5223.4	5249.8
25°	4938.3	4947.1	4973.5	5001.1	5017.4
27.5°	4688.3	4692.1	4679.5	4656.9	4661.9
30°	4341.6	4327.7	4257.4	4160.7	4131.8
32.5°	3886.8	3795.1	3643.1	3507.4	3452.1
35°	3182.1	3095.4	2964.7	2857.9	2816.5
37.5°	2286.4	2292.6	2283.8	2260.0	2265.0
40°	1445.9	1503.7	1640.6	1729.8	1757.5
42.5°	868.1	930.9	1081.6	1202.2	1241.2
45°	516.3	557.8	664.6	758.8	805.2
47.5°	331.6	351.7	404.5	459.8	486.2
50°	219.8	229.9	251.2	276.4	287.7
52.5°	140.7	144.5	154.5	163.3	172.1
55°	81.7	82.9	87.9	91.7	90.4
57.5°	42.7	42.7	42.7	42.7	42.7
60°	23.9	22.6	22.6	22.6	21.4
62.5°	11.3	11.3	11.3	10.0	10.0
65°	2.5	3.8	3.8	3.8	3.8
67.5°	0.0	0.0	0.0	0.0	1.3
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)