

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: P247613

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247613
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 EC8B120950 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7512.0 lumens
Efficiency: N/A
Efficacy: 63.5 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

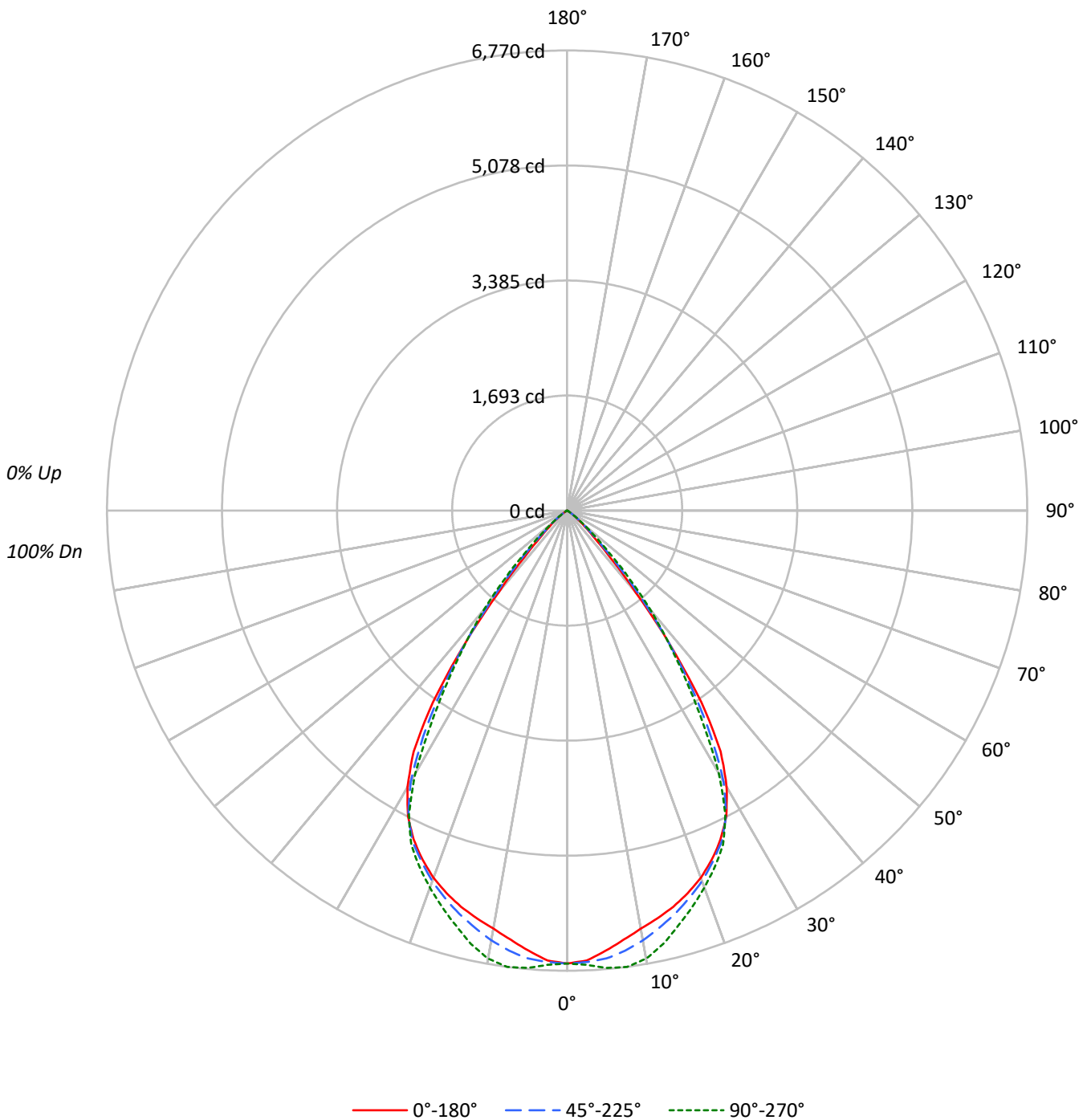
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	205462	205462	205462
5°	201242	204777	209064
10°	195575	201017	209568
15°	192589	196014	201783
20°	188649	190388	193686
25°	181685	182978	184598
30°	167163	163919	159084
35°	129530	120680	114649
40°	62937	71415	76499
45°	24347	31338	37970
50°	11403	13034	14924
55°	4747	5113	5258
60°	1591	1511	1425
65°	197	299	299
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°	626.3	8.3
10°-20°	1733.2	23.1
20°-30°	2442.3	32.5
30°-40°	1975.9	26.3
40°-50°	627.3	8.4
50°-60°	100.3	1.3
60°-70°	6.8	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°	4801.8	63.9
0°-40°	6777.7	90.2
0°-60°	7505.2	99.9
0°-90°	7512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6663	6663	6663	6663	6663	
5°	6501	6531	6616	6712	6754	612
15°	6033	6056	6140	6257	6321	1699
25°	5340	5349	5378	5408	5426	2438
35°	3441	3347	3206	3090	3046	2040
45°	558	603	719	820	871	520
55°	88	90	95	99	98	92
65°	3	4	4	4	4	7
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°	6663.0	6663.0	6663.0	6663.0	6663.0
2.5°	6625.0	6631.8	6648.1	6679.3	6688.8
5°	6501.3	6531.2	6615.5	6711.9	6754.0
7.5°	6368.2	6407.6	6531.2	6694.2	6770.3
10°	6246.0	6288.1	6419.8	6593.7	6692.9
12.5°	6142.7	6175.3	6282.6	6438.9	6531.2
15°	6032.7	6055.8	6140.0	6256.8	6320.7
17.5°	5900.9	5921.3	5977.0	6068.0	6116.9
20°	5748.8	5754.2	5801.8	5860.2	5902.3
22.5°	5560.0	5565.4	5592.6	5648.3	5676.8
25°	5339.9	5349.4	5377.9	5407.8	5425.5
27.5°	5069.6	5073.7	5060.1	5035.6	5041.1
30°	4694.7	4679.7	4603.6	4499.1	4467.8
32.5°	4202.9	4103.8	3939.4	3792.7	3732.9
35°	3440.9	3347.1	3205.8	3090.4	3045.6
37.5°	2472.3	2479.1	2469.6	2443.8	2449.2
40°	1563.5	1626.0	1774.1	1870.5	1900.4
42.5°	938.7	1006.6	1169.6	1300.0	1342.1
45°	558.3	603.1	718.6	820.5	870.7
47.5°	358.6	380.4	437.4	497.2	525.7
50°	237.7	248.6	271.7	298.9	311.1
52.5°	152.1	156.2	167.1	176.6	186.1
55°	88.3	89.7	95.1	99.2	97.8
57.5°	46.2	46.2	46.2	46.2	46.2
60°	25.8	24.5	24.5	24.5	23.1
62.5°	12.2	12.2	12.2	10.9	10.9
65°	2.7	4.1	4.1	4.1	4.1
67.5°	0.0	0.0	0.0	0.0	1.4
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)