

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: P247565

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120950 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11354.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

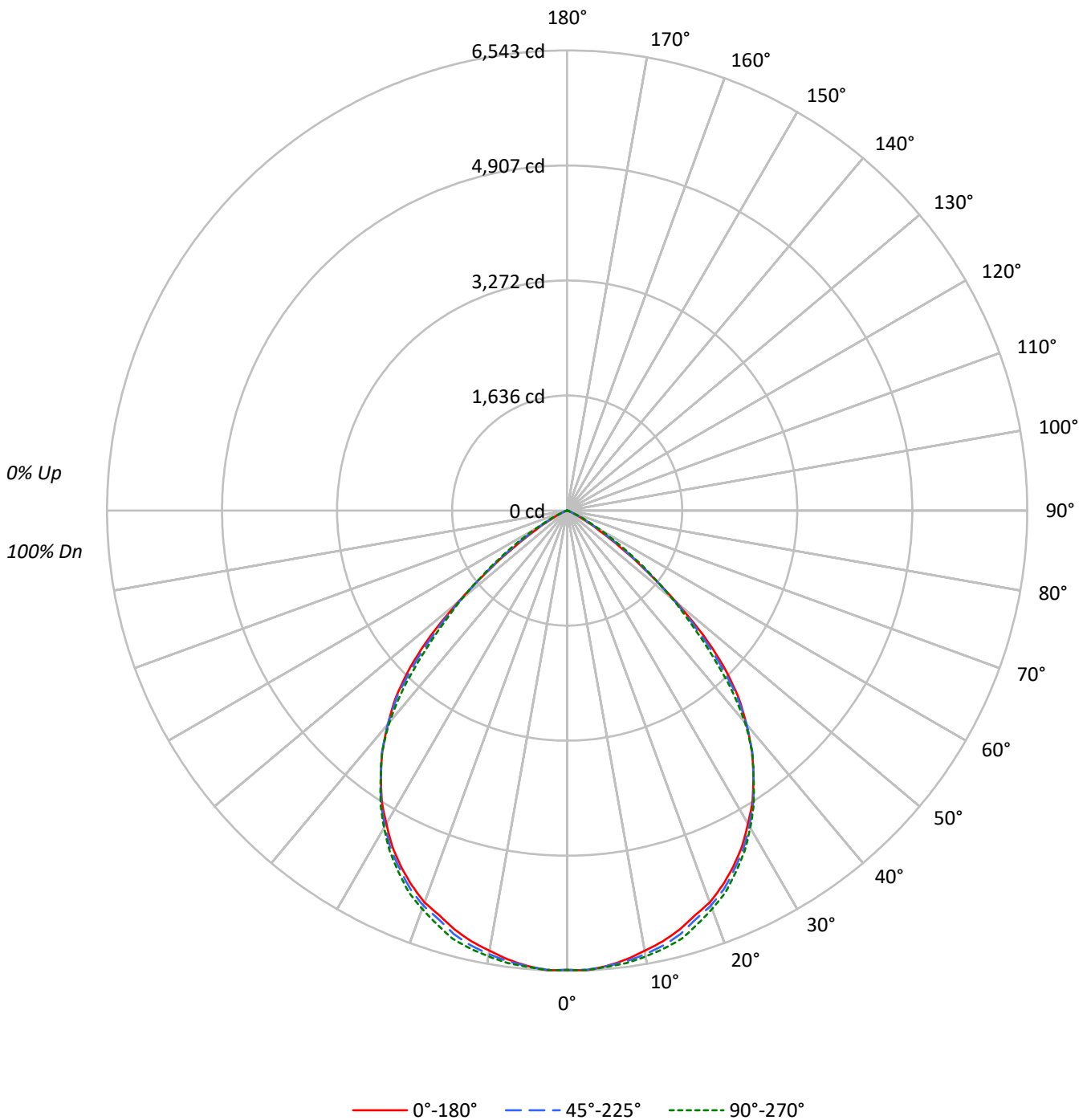
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	201414	201414	201414
5°	201174	201257	201551
10°	198991	200522	201543
15°	196940	198977	201147
20°	194546	196108	197801
25°	190065	191450	193022
30°	183090	184493	185458
35°	173724	173875	173927
40°	159627	159901	158258
45°	138097	133239	127313
50°	96843	94890	93652
55°	52584	56966	60691
60°	23207	28320	32088
65°	8924	11200	13382
70°	4535	4039	5265
75°	1454	2752	2431
80°	1208	249	1456
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.8	5.4
10°-20°	1754.7	15.5
20°-30°	2587.7	22.8
30°-40°	2880.2	25.4
40°-50°	2318.0	20.4
50°-60°	985.7	8.7
60°-70°	184.8	1.6
70°-80°	22.4	0.2
80°-90°	2.8	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°	4960.2	43.7
0°-40°	7840.4	69.1
0°-60°	11144.0	98.2
0°-90°	11354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6532	6532	6532	6532	6532	
5°	6499	6500	6502	6513	6511	616
15°	6169	6203	6233	6280	6301	1738
25°	5586	5607	5627	5660	5673	2567
35°	4615	4616	4619	4620	4620	2874
45°	3167	3141	3055	2963	2919	2381
55°	978	1000	1060	1102	1129	932
65°	122	136	154	164	183	158
75°	12	15	23	22	20	20
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6531.7	6531.7	6531.7	6531.7	6531.7
2.5°	6542.6	6546.7	6533.1	6535.8	6539.9
5°	6499.1	6500.5	6501.8	6512.7	6511.3
7.5°	6438.0	6447.5	6463.8	6484.2	6489.6
10°	6355.1	6379.6	6404.0	6428.5	6436.6
12.5°	6273.6	6288.5	6332.0	6356.5	6376.8
15°	6169.0	6203.0	6232.8	6280.4	6300.8
17.5°	6035.9	6060.3	6088.8	6136.4	6164.9
20°	5928.5	5935.3	5976.1	6018.2	6027.7
22.5°	5769.6	5784.5	5826.6	5855.2	5879.6
25°	5586.2	5606.6	5626.9	5659.6	5673.1
27.5°	5385.1	5397.4	5425.9	5449.0	5461.2
30°	5142.0	5169.1	5181.4	5192.2	5208.5
32.5°	4905.6	4913.7	4924.6	4931.4	4939.5
35°	4614.9	4616.2	4618.9	4620.3	4620.3
37.5°	4317.3	4326.9	4324.1	4316.0	4320.1
40°	3965.5	3981.8	3972.3	3947.8	3931.5
42.5°	3610.9	3602.8	3570.2	3496.8	3462.8
45°	3166.7	3140.9	3055.3	2962.9	2919.4
47.5°	2634.1	2577.1	2505.1	2433.1	2404.6
50°	2018.7	2010.6	1978.0	1949.5	1952.2
52.5°	1446.8	1467.2	1474.0	1501.2	1514.7
55°	978.1	999.9	1059.6	1101.8	1128.9
57.5°	595.0	637.1	701.0	770.3	805.6
60°	376.3	400.8	459.2	504.0	520.3
62.5°	235.0	236.4	264.9	300.2	315.2
65°	122.3	135.9	153.5	164.4	183.4
67.5°	76.1	76.1	74.7	91.0	101.9
70°	50.3	43.5	44.8	54.3	58.4
72.5°	17.7	29.9	27.2	27.2	19.0
75°	12.2	14.9	23.1	21.7	20.4
77.5°	16.3	14.9	10.9	9.5	19.0
80°	6.8	5.4	1.4	8.2	8.2
82.5°	6.8	2.7	8.2	10.9	6.8
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)