

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: P247517

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120950 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10312.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

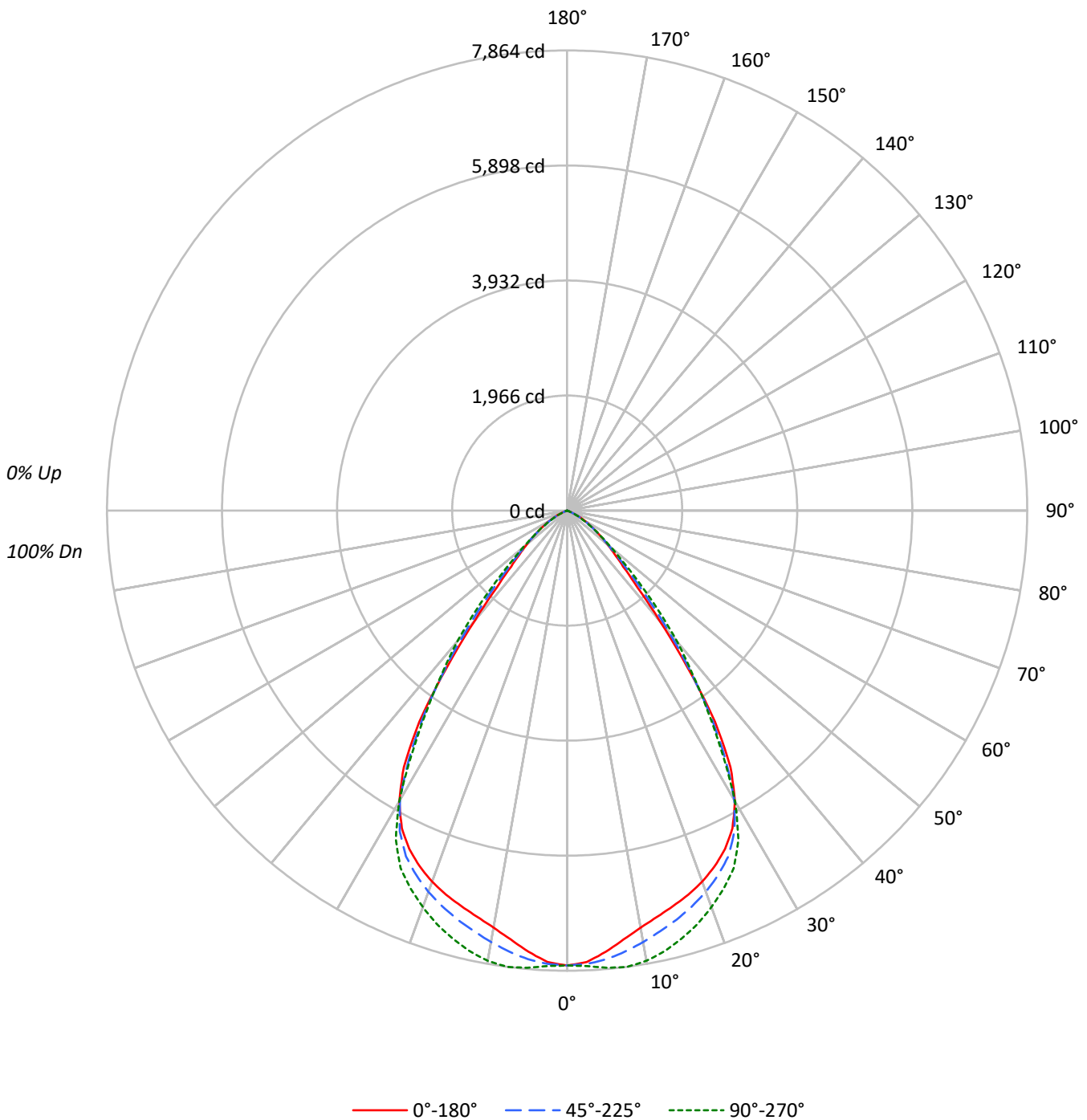
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	239718	239718	239718
5°	234285	238238	242779
10°	226533	234442	244650
15°	223328	230961	241672
20°	221451	227512	236651
25°	217176	221796	229237
30°	204158	203382	204350
35°	165879	160308	157853
40°	98477	108541	117562
45°	58942	66347	75348
50°	42945	44053	47311
55°	31112	30015	30671
60°	21111	19519	18767
65°	10602	9814	9318
70°	2939	2570	2326
75°	1132	810	810
80°	479	479	249
85°	495	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.9	7.1
10°-20°	2046.9	19.8
20°-30°	2975.0	28.9
30°-40°	2630.9	25.5
40°-50°	1251.5	12.1
50°-60°	521.3	5.1
60°-70°	145.6	1.4
70°-80°	11.0	0.1
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°	5750.8	55.8
0°-40°	8381.7	81.3
0°-60°	10154.6	98.5
0°-90°	10312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7774	7774	7774	7774	7774	
5°	7569	7607	7696	7798	7843	712
15°	6996	7059	7235	7455	7570	1976
25°	6383	6412	6519	6663	6738	2917
35°	4406	4344	4258	4193	4193	2637
45°	1352	1399	1521	1663	1728	1125
55°	579	572	558	558	570	526
65°	145	143	134	129	128	158
75°	10	8	7	7	7	13
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7773.9	7773.9	7773.9	7773.9	7773.9
2.5°	7722.3	7729.1	7754.9	7779.4	7790.2
5°	7568.8	7606.9	7696.5	7798.4	7843.2
7.5°	7393.6	7450.6	7601.4	7780.7	7863.6
10°	7234.7	7306.7	7487.3	7708.7	7813.3
12.5°	7109.7	7176.3	7361.0	7591.9	7710.1
15°	6995.6	7059.4	7234.7	7454.7	7570.2
17.5°	6881.5	6942.6	7093.4	7298.5	7409.9
20°	6748.4	6797.3	6933.1	7113.8	7211.6
22.5°	6582.7	6627.5	6741.6	6901.9	6990.2
25°	6383.0	6411.5	6518.8	6662.8	6737.5
27.5°	6118.1	6124.9	6190.1	6283.8	6339.5
30°	5733.7	5729.6	5711.9	5707.9	5739.1
32.5°	5195.8	5136.0	5032.8	4983.9	4945.8
35°	4406.5	4344.1	4258.5	4193.3	4193.3
37.5°	3368.8	3423.1	3457.0	3497.8	3518.2
40°	2446.4	2526.6	2696.4	2872.9	2920.5
42.5°	1778.1	1852.8	2036.2	2233.2	2290.2
45°	1351.6	1399.1	1521.4	1662.6	1727.8
47.5°	1092.1	1105.7	1166.8	1251.1	1282.3
50°	895.2	899.2	918.3	961.7	986.2
52.5°	724.0	721.3	726.7	739.0	749.8
55°	578.7	571.9	558.3	558.3	570.5
57.5°	446.9	437.4	422.5	415.7	411.6
60°	342.3	332.8	316.5	305.6	304.3
62.5°	245.9	237.7	221.4	211.9	209.2
65°	145.3	142.6	134.5	129.0	127.7
67.5°	67.9	65.2	58.4	55.7	54.3
70°	32.6	31.2	28.5	27.2	25.8
72.5°	16.3	16.3	13.6	13.6	13.6
75°	9.5	8.2	6.8	6.8	6.8
77.5°	5.4	4.1	4.1	4.1	4.1
80°	2.7	2.7	2.7	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	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)