

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: P247509

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247509
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 EC8B120935 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9536.0 lumens
Efficiency: N/A
Efficacy: 80.6 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

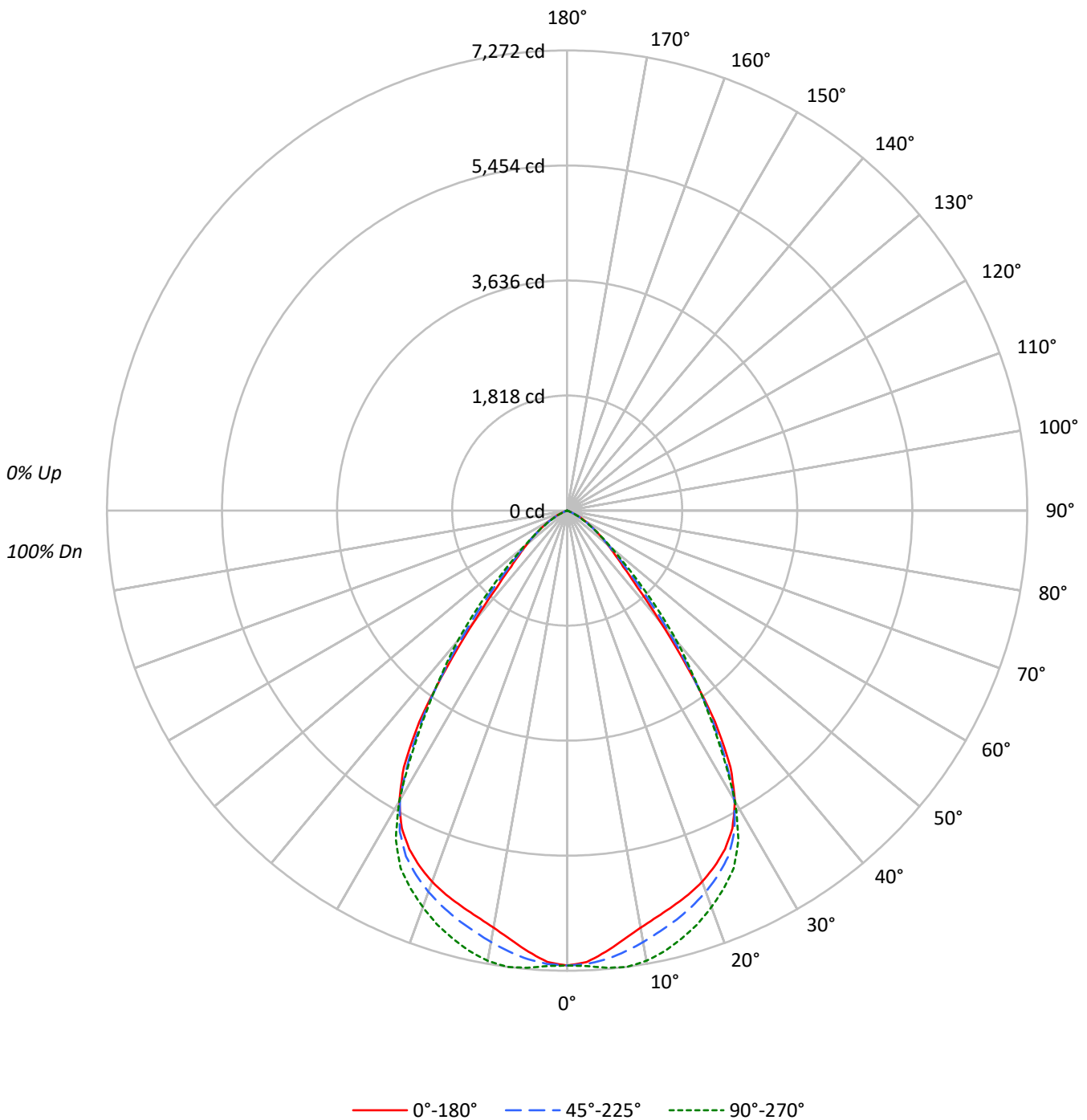
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	221679	221679	221679
5°	216657	220310	224510
10°	209484	216801	226242
15°	206523	213579	223485
20°	204784	210392	218842
25°	200831	205108	211987
30°	188794	188078	188972
35°	153396	148243	145973
40°	91067	100373	108714
45°	54507	61354	69679
50°	39712	40738	43751
55°	28768	27757	28365
60°	19519	18052	17355
65°	9806	9077	8617
70°	2714	2380	2155
75°	1048	751	751
80°	444	444	231
85°	460	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.0	7.1
10°-20°	1892.9	19.8
20°-30°	2751.1	28.8
30°-40°	2432.9	25.5
40°-50°	1157.4	12.1
50°-60°	482.1	5.1
60°-70°	134.7	1.4
70°-80°	10.2	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°	5318.0	55.8
0°-40°	7750.9	81.3
0°-60°	9390.4	98.5
0°-90°	9536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7189	7189	7189	7189	7189	
5°	6999	7034	7117	7212	7253	658
15°	6469	6528	6690	6894	7000	1827
25°	5903	5929	6028	6161	6230	2698
35°	4075	4017	3938	3878	3878	2439
45°	1250	1294	1407	1538	1598	1041
55°	535	529	516	516	528	487
65°	134	132	124	119	118	146
75°	9	8	6	6	6	12
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°	7188.9	7188.9	7188.9	7188.9	7188.9
2.5°	7141.2	7147.5	7171.3	7194.0	7204.0
5°	6999.3	7034.4	7117.3	7211.5	7253.0
7.5°	6837.2	6890.0	7029.4	7195.2	7271.8
10°	6690.2	6756.8	6923.9	7128.6	7225.4
12.5°	6574.7	6636.2	6807.1	7020.6	7129.9
15°	6469.2	6528.2	6690.2	6893.7	7000.5
17.5°	6363.6	6420.2	6559.6	6749.3	6852.3
20°	6240.5	6285.8	6411.4	6578.4	6668.9
22.5°	6087.3	6128.7	6234.3	6382.5	6464.1
25°	5902.6	5929.0	6028.3	6161.4	6230.5
27.5°	5657.7	5664.0	5724.3	5810.9	5862.4
30°	5302.2	5298.4	5282.1	5278.3	5307.2
32.5°	4804.8	4749.5	4654.0	4608.8	4573.6
35°	4074.9	4017.2	3938.0	3877.7	3877.7
37.5°	3115.2	3165.5	3196.9	3234.6	3253.4
40°	2262.3	2336.4	2493.5	2656.8	2700.7
42.5°	1644.3	1713.4	1883.0	2065.1	2117.9
45°	1249.9	1293.8	1406.9	1537.5	1597.8
47.5°	1009.9	1022.5	1079.0	1156.9	1185.8
50°	827.8	831.6	849.2	889.4	912.0
52.5°	669.5	667.0	672.0	683.3	693.4
55°	535.1	528.8	516.3	516.3	527.6
57.5°	413.3	404.5	390.7	384.4	380.6
60°	316.5	307.8	292.7	282.6	281.4
62.5°	227.4	219.8	204.8	196.0	193.4
65°	134.4	131.9	124.4	119.3	118.1
67.5°	62.8	60.3	54.0	51.5	50.2
70°	30.1	28.9	26.4	25.1	23.9
72.5°	15.1	15.1	12.6	12.6	12.6
75°	8.8	7.5	6.3	6.3	6.3
77.5°	5.0	3.8	3.8	3.8	3.8
80°	2.5	2.5	2.5	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	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)