

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: P247145

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11656.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

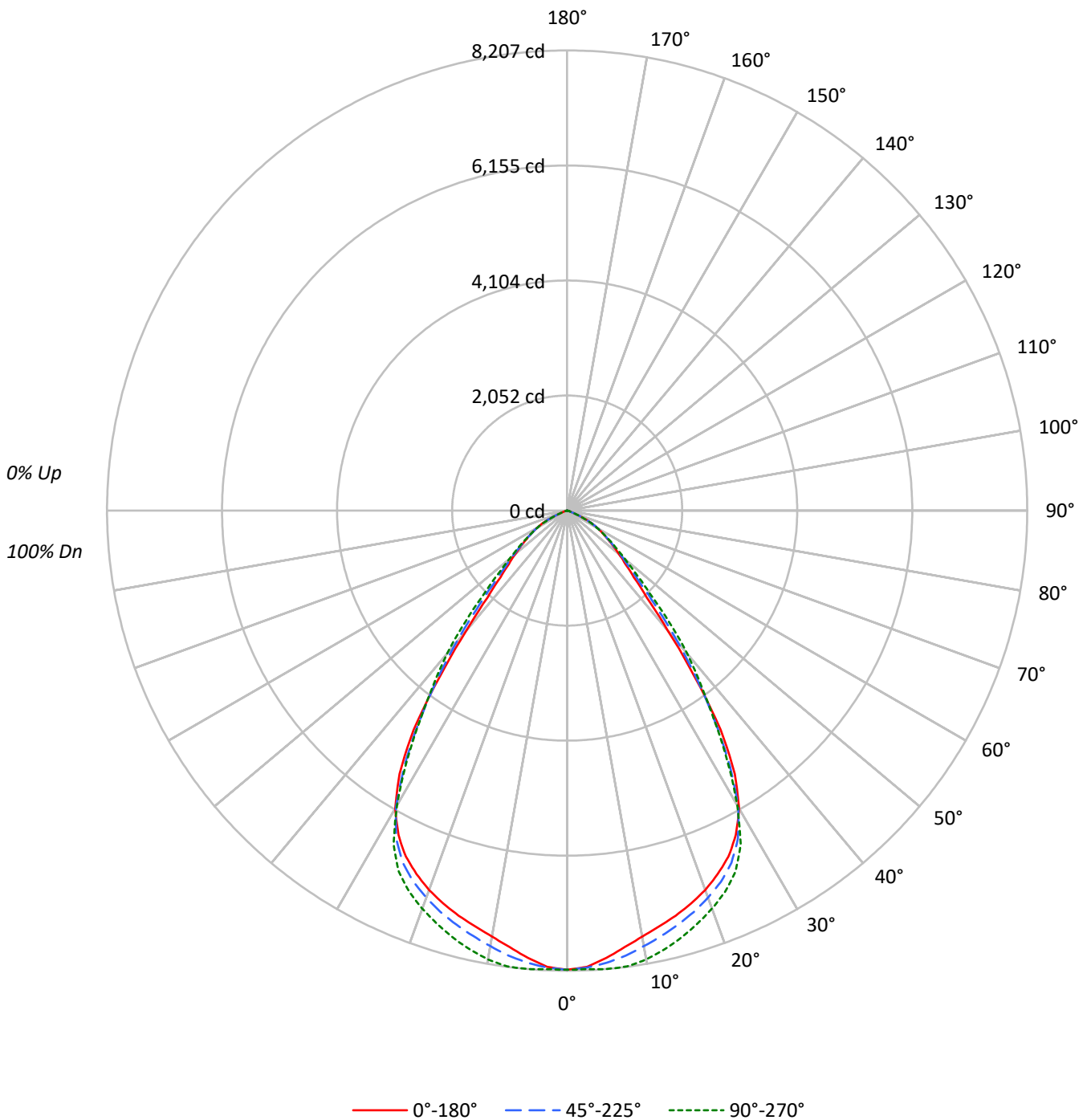
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	252515	252515	252515
5°	247874	250570	254034
10°	241522	247020	254507
15°	238789	244037	251626
20°	236293	241055	247949
25°	231643	235828	241751
30°	218401	217418	216086
35°	179649	173461	172471
40°	112494	124119	134191
45°	73412	81850	90707
50°	57884	60666	64643
55°	47181	47998	49487
60°	38613	38354	38188
65°	25012	24305	22991
70°	8601	7979	7348
75°	2967	2800	2633
80°	1225	977	977
85°	495	495	495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.1	6.6
10°-20°	2161.3	18.5
20°-30°	3160.9	27.1
30°-40°	2864.1	24.6
40°-50°	1522.9	13.1
50°-60°	812.8	7.0
60°-70°	331.5	2.8
70°-80°	33.4	0.3
80°-90°	2.0	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°	6089.2	52.2
0°-40°	8953.4	76.8
0°-60°	11289.1	96.9
0°-90°	11656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8189	8189	8189	8189	8189	
5°	8008	8028	8095	8168	8207	755
15°	7480	7523	7644	7802	7882	2110
25°	6808	6837	6931	7050	7105	3111
35°	4772	4706	4608	4573	4582	2868
45°	1683	1733	1877	2026	2080	1377
55°	878	876	893	905	920	796
65°	343	341	333	314	315	342
75°	25	25	24	22	22	36
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8188.9	8188.9	8188.9	8188.9	8188.9
2.5°	8144.6	8143.3	8158.5	8176.4	8186.1
5°	8007.8	8028.5	8094.9	8168.1	8206.8
7.5°	7853.0	7891.7	8006.4	8132.2	8199.9
10°	7713.4	7763.2	7889.0	8053.4	8128.1
12.5°	7593.2	7641.6	7768.7	7937.3	8018.9
15°	7479.9	7522.7	7644.3	7801.9	7882.0
17.5°	7348.6	7390.0	7507.5	7656.8	7725.9
20°	7200.7	7235.2	7345.8	7485.4	7555.9
22.5°	7016.9	7054.2	7166.1	7294.7	7361.0
25°	6808.2	6837.2	6931.2	7050.0	7105.3
27.5°	6517.9	6544.2	6599.5	6663.0	6704.5
30°	6133.7	6126.8	6106.1	6086.7	6068.7
32.5°	5567.0	5500.7	5399.8	5336.2	5339.0
35°	4772.3	4706.0	4607.9	4573.3	4581.6
37.5°	3728.9	3778.6	3818.7	3885.0	3916.8
40°	2794.6	2880.3	3083.4	3260.3	3333.6
42.5°	2100.8	2185.1	2397.9	2584.5	2685.4
45°	1683.4	1733.1	1876.9	2026.1	2080.0
47.5°	1409.7	1431.8	1514.8	1610.1	1657.1
50°	1206.6	1220.4	1264.6	1317.1	1347.5
52.5°	1033.8	1039.3	1061.4	1091.8	1111.2
55°	877.6	876.2	892.8	905.3	920.5
57.5°	742.2	740.8	740.8	744.9	754.6
60°	626.1	621.9	621.9	616.4	619.2
62.5°	510.0	505.8	496.2	489.3	486.5
65°	342.8	341.4	333.1	313.7	315.1
67.5°	178.3	176.9	168.6	163.1	160.3
70°	95.4	92.6	88.5	84.3	81.5
72.5°	48.4	47.0	45.6	42.8	42.8
75°	24.9	24.9	23.5	22.1	22.1
77.5°	12.4	12.4	11.1	11.1	11.1
80°	6.9	6.9	5.5	5.5	5.5
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4
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)