

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: P247177

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247177
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 EC8B120940 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11066.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

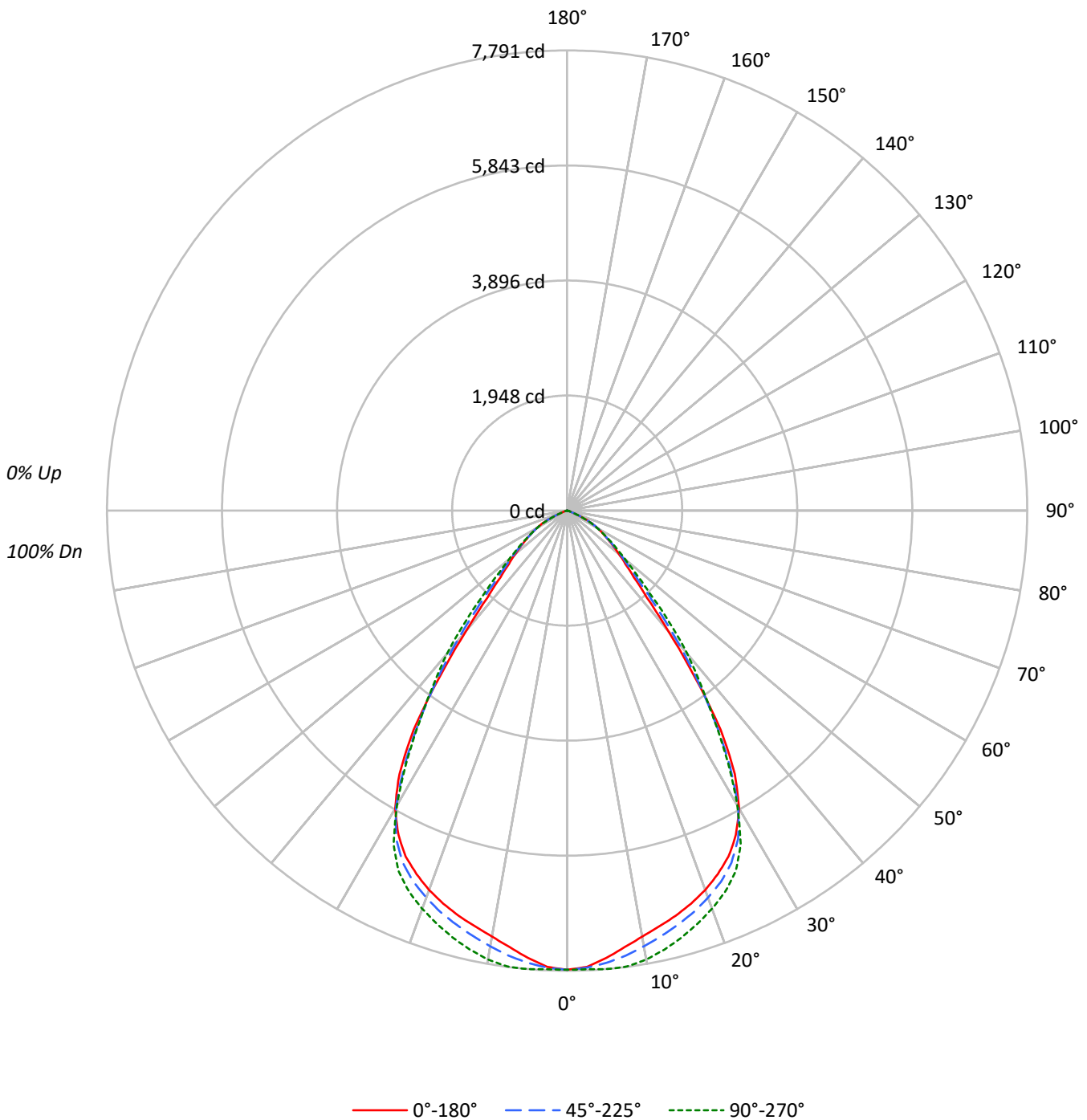
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	239734	239734	239734
5°	235329	237885	241176
10°	229298	234514	241622
15°	226699	231686	238891
20°	224332	228854	235397
25°	219918	223889	229516
30°	207345	206412	205152
35°	170558	164678	163741
40°	106798	117839	127400
45°	69696	77707	86119
50°	54953	57596	61372
55°	44794	45568	46982
60°	36658	36418	36251
65°	23743	23072	21831
70°	8159	7573	6978
75°	2812	2657	2502
80°	1172	923	923
85°	460	460	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.2	6.6
10°-20°	2051.9	18.5
20°-30°	3000.9	27.1
30°-40°	2719.2	24.6
40°-50°	1445.8	13.1
50°-60°	771.6	7.0
60°-70°	314.7	2.8
70°-80°	31.7	0.3
80°-90°	1.8	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°	5781.0	52.2
0°-40°	8500.2	76.8
0°-60°	10717.7	96.9
0°-90°	11066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7774	7774	7774	7774	7774	
5°	7602	7622	7685	7755	7791	717
15°	7101	7142	7257	7407	7483	2003
25°	6464	6491	6580	6693	6746	2954
35°	4531	4468	4375	4342	4350	2723
45°	1598	1645	1782	1924	1975	1307
55°	833	832	848	859	874	755
65°	325	324	316	298	299	324
75°	24	24	22	21	21	34
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°	7774.4	7774.4	7774.4	7774.4	7774.4
2.5°	7732.4	7731.1	7745.5	7762.6	7771.7
5°	7602.5	7622.2	7685.1	7754.7	7791.4
7.5°	7455.5	7492.3	7601.2	7720.6	7784.9
10°	7323.0	7370.2	7489.6	7645.8	7716.6
12.5°	7208.8	7254.8	7375.5	7535.6	7613.0
15°	7101.2	7141.9	7257.4	7407.0	7483.1
17.5°	6976.6	7016.0	7127.5	7269.2	7334.8
20°	6836.2	6869.0	6974.0	7106.5	7173.4
22.5°	6661.7	6697.1	6803.4	6925.4	6988.4
25°	6463.6	6491.1	6580.3	6693.2	6745.7
27.5°	6188.0	6212.9	6265.4	6325.8	6365.1
30°	5823.2	5816.7	5797.0	5778.6	5761.6
32.5°	5285.3	5222.3	5126.5	5066.1	5068.8
35°	4530.8	4467.8	4374.6	4341.8	4349.7
37.5°	3540.1	3587.4	3625.4	3688.4	3718.6
40°	2653.1	2734.5	2927.4	3095.3	3164.9
42.5°	1994.4	2074.5	2276.5	2453.7	2549.5
45°	1598.2	1645.4	1781.9	1923.6	1974.8
47.5°	1338.4	1359.4	1438.1	1528.6	1573.2
50°	1145.5	1158.6	1200.6	1250.5	1279.3
52.5°	981.5	986.7	1007.7	1036.6	1055.0
55°	833.2	831.9	847.6	859.4	873.9
57.5°	704.6	703.3	703.3	707.2	716.4
60°	594.4	590.5	590.5	585.2	587.8
62.5°	484.2	480.2	471.1	464.5	461.9
65°	325.4	324.1	316.2	297.9	299.2
67.5°	169.3	168.0	160.1	154.8	152.2
70°	90.5	87.9	84.0	80.0	77.4
72.5°	45.9	44.6	43.3	40.7	40.7
75°	23.6	23.6	22.3	21.0	21.0
77.5°	11.8	11.8	10.5	10.5	10.5
80°	6.6	6.6	5.2	5.2	5.2
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3
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)