

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: P247273

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120940 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10825.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

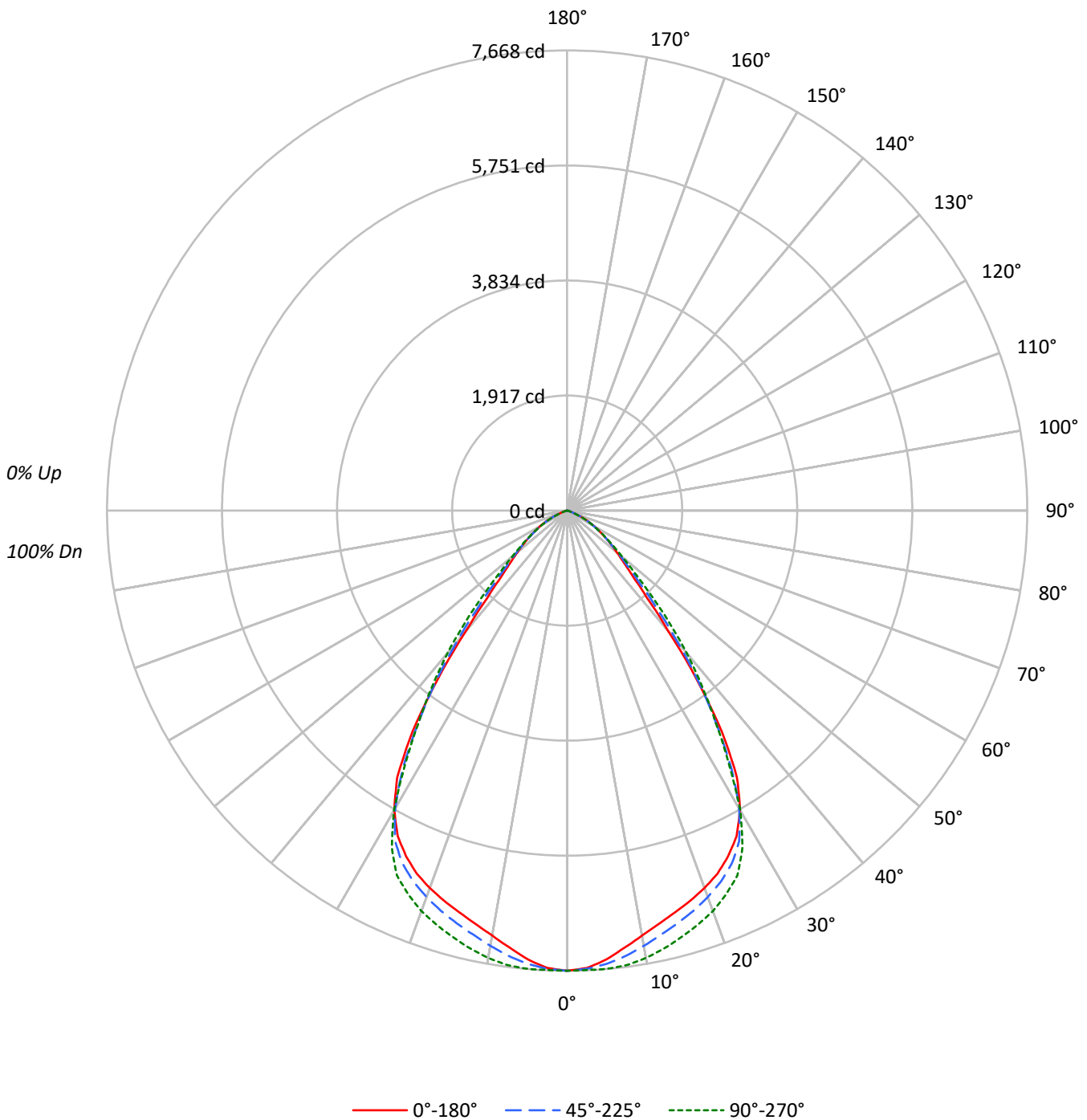
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	236459	236459	236459
5°	232407	234641	237242
10°	225152	230616	237026
15°	221343	227207	234955
20°	219600	224897	233035
25°	216125	220902	228312
30°	205059	204219	205525
35°	169030	163052	162657
40°	105904	115356	124916
45°	67123	74615	84000
50°	51681	53696	57471
55°	40912	40773	42257
60°	31885	31237	31077
65°	21444	20583	20007
70°	9818	8989	8520
75°	4694	4218	3908
80°	2326	2095	2095
85°	1380	1380	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.1	6.6
10°-20°	2013.7	18.6
20°-30°	2965.7	27.4
30°-40°	2697.4	24.9
40°-50°	1396.3	12.9
50°-60°	699.6	6.5
60°-70°	284.9	2.6
70°-80°	45.4	0.4
80°-90°	4.9	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°	5696.5	52.6
0°-40°	8393.9	77.5
0°-60°	10489.8	96.9
0°-90°	10825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7668	7668	7668	7668	7668	
5°	7508	7528	7580	7638	7664	706
15°	6933	6981	7117	7281	7360	1959
25°	6352	6395	6492	6641	6710	2908
35°	4490	4461	4331	4295	4321	2708
45°	1539	1593	1711	1844	1926	1268
55°	761	758	758	773	786	691
65°	294	293	282	278	274	296
75°	39	38	35	33	33	50
85°	4	4	4	3	3	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7668.2	7668.2	7668.2	7668.2	7668.2
2.5°	7627.5	7631.5	7642.0	7653.8	7663.0
5°	7508.1	7527.8	7580.3	7638.0	7664.3
7.5°	7345.4	7388.7	7484.5	7592.1	7639.3
10°	7190.6	7240.4	7365.1	7509.4	7569.8
12.5°	7054.1	7102.7	7237.8	7399.2	7474.0
15°	6933.4	6980.6	7117.1	7281.1	7359.8
17.5°	6819.2	6862.5	6992.4	7156.5	7236.5
20°	6692.0	6730.0	6853.4	7012.1	7101.4
22.5°	6547.6	6576.5	6692.0	6842.9	6921.6
25°	6352.1	6395.4	6492.5	6640.8	6710.3
27.5°	6113.3	6140.9	6207.8	6298.3	6327.2
30°	5759.0	5757.7	5735.4	5735.4	5772.1
32.5°	5267.0	5204.0	5097.7	5033.4	5028.2
35°	4490.2	4461.3	4331.4	4294.7	4320.9
37.5°	3542.8	3562.5	3595.3	3647.8	3695.0
40°	2630.9	2680.7	2865.7	3031.1	3103.2
42.5°	1963.0	2027.3	2216.2	2397.3	2485.2
45°	1539.2	1592.9	1711.0	1843.6	1926.2
47.5°	1272.8	1300.3	1363.3	1452.5	1494.5
50°	1077.3	1090.4	1119.3	1165.2	1198.0
52.5°	914.6	909.3	925.1	955.2	967.1
55°	761.0	758.4	758.4	772.9	786.0
57.5°	631.1	627.2	619.3	625.9	629.8
60°	517.0	513.1	506.5	505.2	503.9
62.5°	416.0	409.4	396.3	393.6	393.6
65°	293.9	292.6	282.1	278.2	274.2
67.5°	182.4	177.1	168.0	160.1	158.8
70°	108.9	107.6	99.7	94.5	94.5
72.5°	65.6	63.0	59.0	56.4	55.1
75°	39.4	38.1	35.4	32.8	32.8
77.5°	23.6	22.3	21.0	19.7	19.7
80°	13.1	13.1	11.8	11.8	11.8
82.5°	7.9	7.9	6.6	6.6	6.6
85°	3.9	3.9	3.9	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)