

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: P247497

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247497
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 EC8B120850 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11327.0 lumens
Efficiency: N/A
Efficacy: 95.7 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

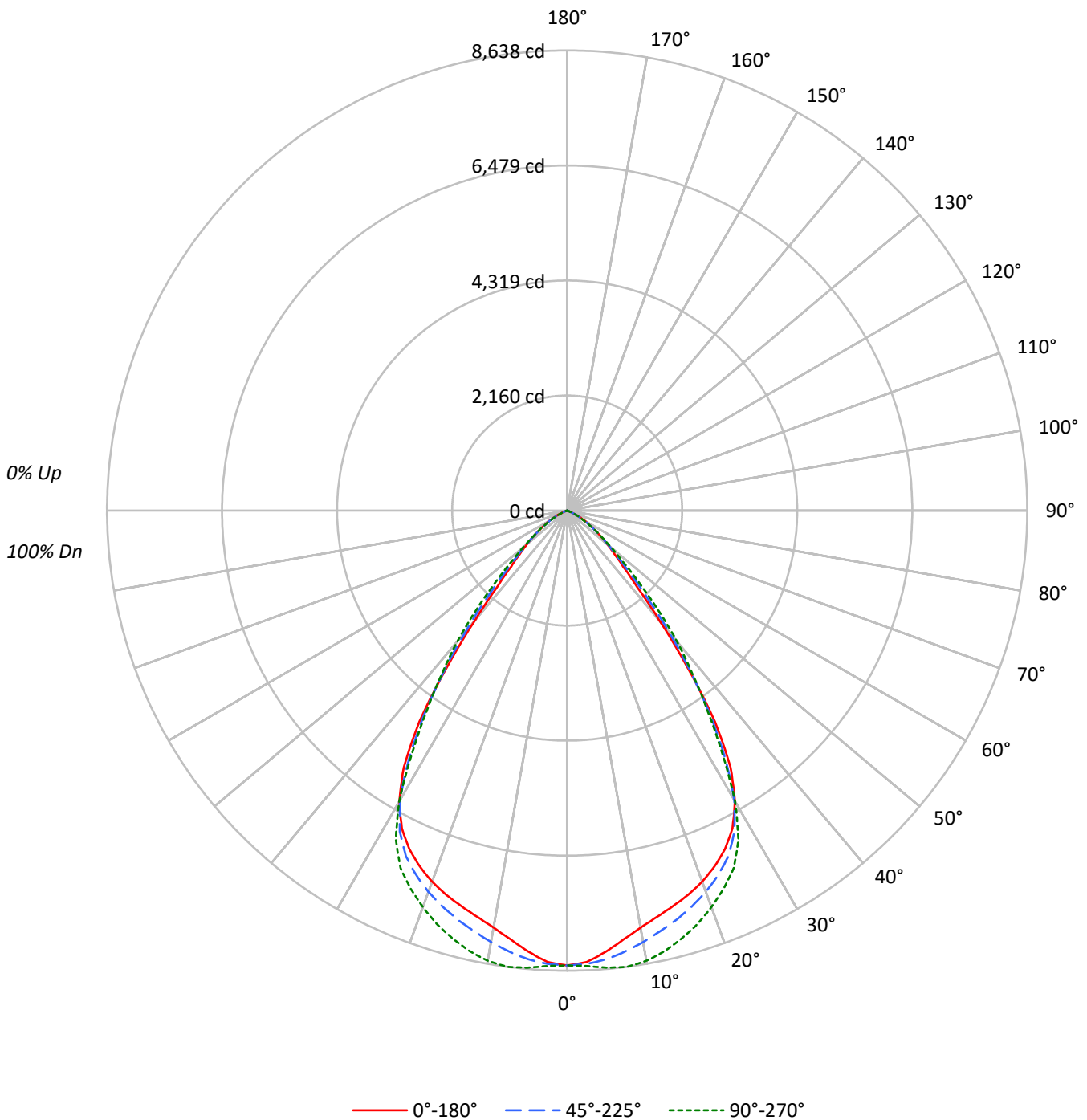
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	263314	263314	263314
5°	257346	261689	266676
10°	248830	257519	268732
15°	245311	253694	265458
20°	243247	249905	259943
25°	238550	243626	251802
30°	224251	223404	224465
35°	182209	176084	173389
40°	108170	119224	129135
45°	64742	72875	82766
50°	47172	48385	51964
55°	34171	32967	33692
60°	23189	21444	20611
65°	11653	10777	10237
70°	3228	2822	2552
75°	1239	894	894
80°	533	533	266
85°	531	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.6	7.1
10°-20°	2248.4	19.8
20°-30°	3267.8	28.9
30°-40°	2889.9	25.5
40°-50°	1374.7	12.1
50°-60°	572.6	5.1
60°-70°	160.0	1.4
70°-80°	12.1	0.1
80°-90°	0.9	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°	6316.8	55.8
0°-40°	9206.7	81.3
0°-60°	11154.1	98.5
0°-90°	11327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8539	8539	8539	8539	8539	
5°	8314	8356	8454	8566	8615	782
15°	7684	7754	7947	8188	8315	2170
25°	7011	7043	7160	7319	7401	3204
35°	4840	4772	4678	4606	4606	2897
45°	1485	1537	1671	1826	1898	1236
55°	636	628	613	613	627	578
65°	160	157	148	142	140	174
75°	10	9	8	8	8	14
85°	2	2	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°	8539.1	8539.1	8539.1	8539.1	8539.1
2.5°	8482.4	8489.9	8518.2	8545.1	8557.0
5°	8313.8	8355.6	8454.1	8566.0	8615.2
7.5°	8121.3	8184.0	8349.6	8546.6	8637.6
10°	7946.8	8025.8	8224.3	8467.5	8582.4
12.5°	7809.5	7882.6	8085.5	8339.2	8469.0
15°	7684.2	7754.3	7946.8	8188.5	8315.3
17.5°	7558.8	7626.0	7791.6	8016.9	8139.2
20°	7412.6	7466.3	7615.5	7814.0	7921.4
22.5°	7230.6	7279.8	7405.1	7581.2	7678.2
25°	7011.2	7042.6	7160.4	7318.6	7400.7
27.5°	6720.3	6727.7	6799.4	6902.3	6963.5
30°	6298.0	6293.6	6274.2	6269.7	6304.0
32.5°	5707.2	5641.5	5528.1	5474.4	5432.6
35°	4840.3	4771.6	4677.6	4606.0	4606.0
37.5°	3700.3	3760.0	3797.3	3842.1	3864.5
40°	2687.2	2775.3	2961.8	3155.7	3208.0
42.5°	1953.1	2035.2	2236.6	2453.0	2515.6
45°	1484.6	1536.8	1671.1	1826.3	1897.9
47.5°	1199.6	1214.5	1281.7	1374.2	1408.5
50°	983.3	987.8	1008.6	1056.4	1083.2
52.5°	795.3	792.3	798.3	811.7	823.6
55°	635.6	628.2	613.2	613.2	626.7
57.5°	490.9	480.4	464.0	456.6	452.1
60°	376.0	365.6	347.7	335.7	334.2
62.5°	270.1	261.1	243.2	232.8	229.8
65°	159.7	156.7	147.7	141.7	140.3
67.5°	74.6	71.6	64.2	61.2	59.7
70°	35.8	34.3	31.3	29.8	28.3
72.5°	17.9	17.9	14.9	14.9	14.9
75°	10.4	9.0	7.5	7.5	7.5
77.5°	6.0	4.5	4.5	4.5	4.5
80°	3.0	3.0	3.0	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	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)