

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: P247269

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247269
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 EC8B120935 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10364.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

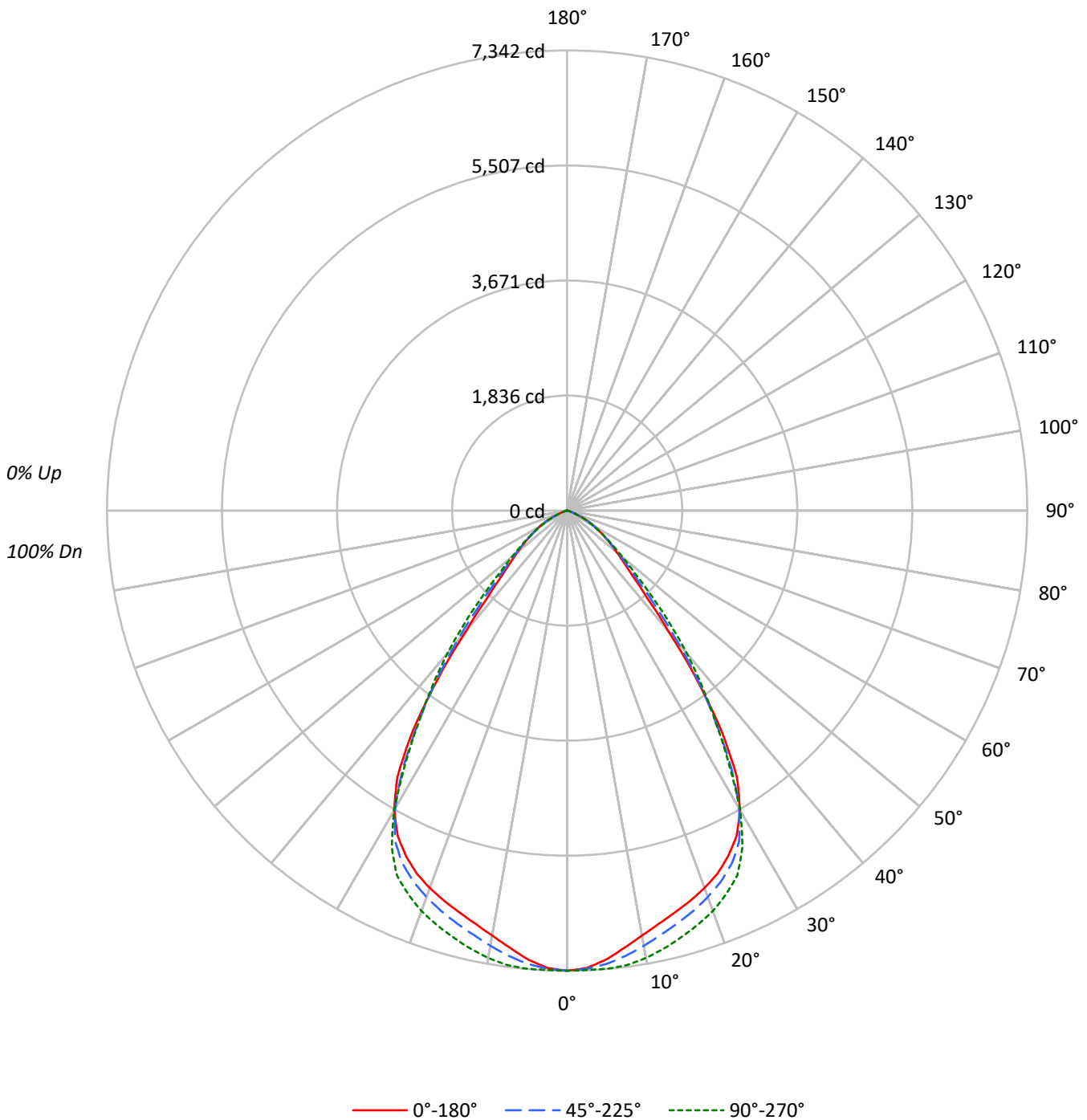
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	226388	226388	226388
5°	222510	224649	227138
10°	215564	220794	226931
15°	211915	217531	224950
20°	210248	215318	223108
25°	206921	211494	218591
30°	196328	195524	196773
35°	161832	156107	155730
40°	101392	110445	119599
45°	64262	71440	80424
50°	49479	51408	55025
55°	39171	39036	40456
60°	30528	29905	29751
65°	20532	19708	19161
70°	9404	8610	8159
75°	4492	4039	3741
80°	2237	2007	2007
85°	1344	1344	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.6	6.6
10°-20°	1927.9	18.6
20°-30°	2839.4	27.4
30°-40°	2582.5	24.9
40°-50°	1336.9	12.9
50°-60°	669.8	6.5
60°-70°	272.8	2.6
70°-80°	43.5	0.4
80°-90°	4.7	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°	5453.9	52.6
0°-40°	8036.4	77.5
0°-60°	10043.1	96.9
0°-90°	10364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7342	7342	7342	7342	7342	
5°	7188	7207	7258	7313	7338	676
15°	6638	6683	6814	6971	7046	1876
25°	6082	6123	6216	6358	6425	2784
35°	4299	4271	4147	4112	4137	2592
45°	1474	1525	1638	1765	1844	1214
55°	729	726	726	740	752	662
65°	281	280	270	266	263	284
75°	38	36	34	31	31	48
85°	4	4	4	2	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7341.6	7341.6	7341.6	7341.6	7341.6
2.5°	7302.7	7306.5	7316.5	7327.8	7336.6
5°	7188.4	7207.2	7257.5	7312.7	7337.9
7.5°	7032.6	7074.1	7165.8	7268.8	7314.0
10°	6884.4	6932.1	7051.4	7189.6	7247.4
12.5°	6753.7	6800.2	6929.6	7084.1	7155.7
15°	6638.1	6683.4	6814.0	6971.0	7046.4
17.5°	6528.8	6570.3	6694.7	6851.7	6928.3
20°	6407.0	6443.4	6561.5	6713.5	6798.9
22.5°	6268.8	6296.4	6407.0	6551.4	6626.8
25°	6081.6	6123.1	6216.0	6358.0	6424.6
27.5°	5853.0	5879.3	5943.4	6030.1	6057.7
30°	5513.8	5512.5	5491.2	5491.2	5526.3
32.5°	5042.7	4982.4	4880.6	4819.0	4814.0
35°	4299.0	4271.3	4146.9	4111.8	4136.9
37.5°	3391.9	3410.8	3442.2	3492.4	3537.7
40°	2518.8	2566.6	2743.7	2902.0	2971.1
42.5°	1879.4	1940.9	2121.8	2295.2	2379.4
45°	1473.6	1525.1	1638.2	1765.1	1844.2
47.5°	1218.6	1245.0	1305.3	1390.7	1430.9
50°	1031.4	1044.0	1071.6	1115.6	1147.0
52.5°	875.6	870.6	885.7	914.6	925.9
55°	728.6	726.1	726.1	739.9	752.5
57.5°	604.3	600.5	593.0	599.2	603.0
60°	495.0	491.2	484.9	483.7	482.4
62.5°	398.2	392.0	379.4	376.9	376.9
65°	281.4	280.1	270.1	266.3	262.6
67.5°	174.6	169.6	160.8	153.3	152.0
70°	104.3	103.0	95.5	90.5	90.5
72.5°	62.8	60.3	56.5	54.0	52.8
75°	37.7	36.4	33.9	31.4	31.4
77.5°	22.6	21.4	20.1	18.8	18.8
80°	12.6	12.6	11.3	11.3	11.3
82.5°	7.5	7.5	6.3	6.3	6.3
85°	3.8	3.8	3.8	2.5	2.5
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)