

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: METALUX

Report Number: P284421

Luminaire Tested: **22FP2135C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-913-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FP2135C
Description: 2x2 20W 3500K SE 80CRI

Light Source: -
Ballast/Driver: -

Summary

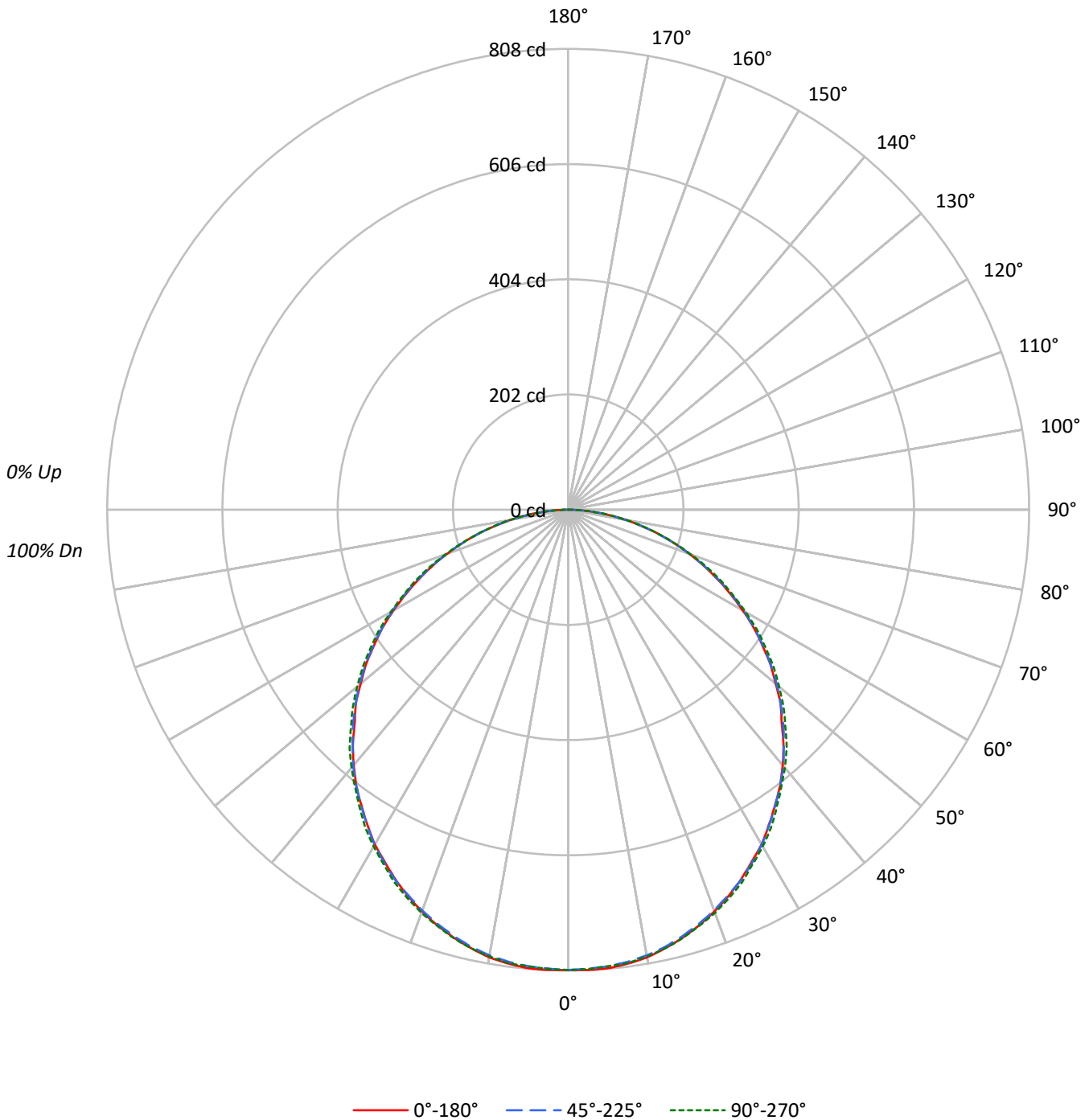
Lumens per Lamp: N/A
Luminaire Lumens: 2321.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (A_{in}): 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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2172	2172	2172
5°	2180	2171	2171
10°	2178	2168	2173
15°	2164	2156	2166
20°	2146	2141	2154
25°	2125	2128	2140
30°	2106	2108	2119
35°	2076	2079	2093
40°	2054	2060	2075
45°	2013	2029	2049
50°	1988	1999	2020
55°	1950	1958	1982
60°	1901	1915	1933
65°	1840	1856	1883
70°	1775	1782	1802
75°	1704	1686	1704
80°	1584	1559	1610
85°	1383	1408	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.3
10°-20°	218.7	9.4
20°-30°	330.3	14.2
30°-40°	397.2	17.1
40°-50°	412.0	17.8
50°-60°	374.1	16.1
60°-70°	288.6	12.4
70°-80°	172.3	7.4
80°-90°	51.3	2.2
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°	625.5	27.0
0°-40°	1022.7	44.1
0°-60°	1808.8	77.9
0°-90°	2321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	807	804	804	804	804	77
15°	777	776	774	775	777	219
25°	716	716	717	717	721	330
35°	632	635	633	635	637	396
45°	529	532	533	536	538	410
55°	416	417	417	420	422	372
65°	289	291	292	293	296	286
75°	164	162	162	163	164	172
85°	45	46	46	45	45	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.0	807.0	807.0	807.0	807.0
2.5°	807.8	807.8	805.3	806.1	806.1
5°	807.0	804.5	803.6	803.6	803.6
7.5°	802.8	800.2	799.4	800.2	801.9
10°	796.9	793.5	793.5	793.5	795.2
12.5°	787.6	785.9	785.0	784.2	787.6
15°	776.6	775.7	774.0	774.9	777.4
17.5°	763.9	762.2	761.4	763.9	764.7
20°	749.5	747.8	747.8	750.4	752.1
22.5°	733.5	733.5	731.8	734.3	736.9
25°	715.7	715.7	716.6	717.4	720.8
27.5°	696.3	697.1	698.0	699.7	700.5
30°	677.7	676.9	678.5	680.2	681.9
32.5°	654.9	656.6	655.7	660.0	661.6
35°	632.1	634.6	632.9	634.6	637.1
37.5°	610.1	610.9	610.1	613.5	613.5
40°	584.8	584.8	586.4	589.0	590.7
42.5°	558.6	559.4	559.4	562.8	567.0
45°	529.0	532.4	533.2	535.7	538.3
47.5°	505.3	504.5	505.3	507.9	512.1
50°	474.9	476.6	477.4	480.0	482.5
52.5°	447.0	447.9	447.9	450.4	453.8
55°	415.7	417.4	417.4	420.0	422.5
57.5°	386.2	385.3	387.0	389.6	392.9
60°	353.2	353.2	355.8	357.4	359.1
62.5°	321.1	322.0	323.6	326.2	326.2
65°	289.0	290.7	291.5	293.2	295.8
67.5°	256.9	257.7	258.6	260.3	262.8
70°	225.6	225.6	226.5	228.2	229.0
72.5°	194.4	193.5	193.5	196.9	196.0
75°	163.9	162.2	162.2	163.1	163.9
77.5°	131.0	130.1	131.8	132.7	132.7
80°	102.2	101.4	100.6	101.4	103.9
82.5°	72.7	72.7	71.8	72.7	72.7
85°	44.8	45.6	45.6	44.8	44.8
87.5°	21.1	20.3	20.3	19.4	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)