

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 126P117

Luminaire Tested: **2GC-317-CLOUD LENS-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P117
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-317-CLOUD LENS-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with
a simulated partially cloudy sky acrylic lens.
Light Source: Three - FO17/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

Summary

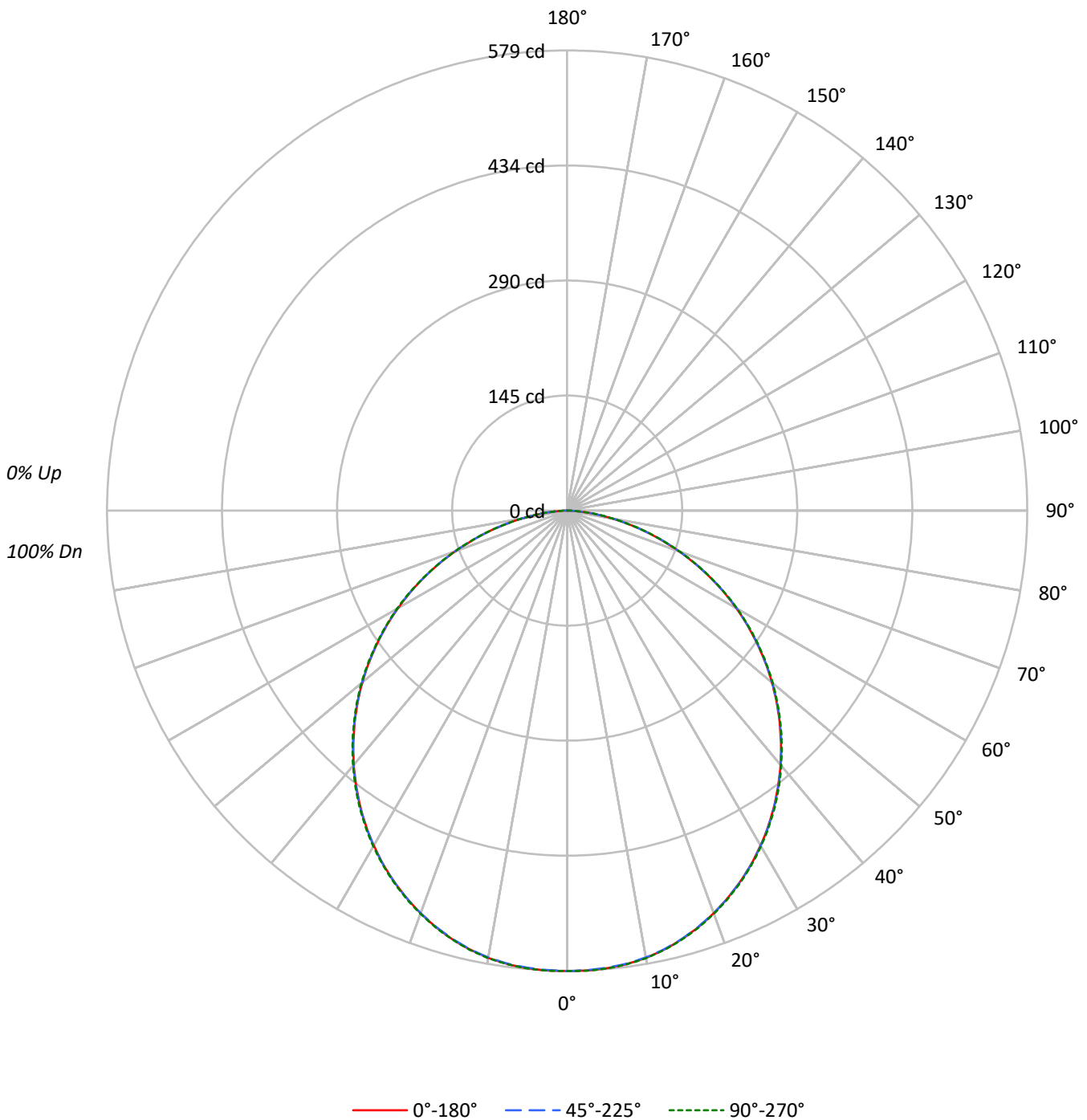
Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 1619.8 lumens
Efficiency: 41.5%
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.78' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 49
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	49	49	49	49	48	48	48	48	46	46	46	44	44	44	42	42	42	42
1	45	43	41	40	44	42	41	39	41	39	38	39	38	37	37	37	36	35
2	41	38	35	33	40	37	34	32	35	33	31	34	32	31	33	31	30	29
3	37	33	30	27	36	32	29	27	31	29	26	30	28	26	29	27	25	24
4	34	29	26	23	33	29	25	23	28	25	22	27	24	22	26	24	22	21
5	32	26	22	20	31	26	22	20	25	22	19	24	21	19	23	21	19	18
6	29	24	20	17	28	23	20	17	22	19	17	22	19	17	21	19	17	16
7	27	21	18	15	26	21	18	15	20	17	15	20	17	15	19	17	15	14
8	25	20	16	14	25	19	16	14	19	16	13	18	15	13	18	15	13	12
9	24	18	15	12	23	18	14	12	17	14	12	17	14	12	16	14	12	11
10	22	17	13	11	22	16	13	11	16	13	11	16	13	11	15	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1932	1932	1932
5°	1935	1932	1936
10°	1935	1933	1936
15°	1927	1926	1928
20°	1913	1913	1916
25°	1895	1896	1899
30°	1874	1874	1878
35°	1848	1850	1854
40°	1818	1820	1824
45°	1783	1786	1790
50°	1744	1747	1753
55°	1696	1700	1705
60°	1638	1643	1649
65°	1564	1567	1571
70°	1457	1464	1468
75°	1315	1320	1327
80°	1106	1117	1125
85°	815	838	853



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	55.0	3.4	1.4	0°	579	579	579	579	579	
10°-20°	157.5	9.7	4.0	5°	578	578	577	578	578	55
20°-30°	237.5	14.7	6.1	15°	558	558	558	558	559	157
30°-40°	284.3	17.6	7.3	25°	515	515	515	516	516	237
40°-50°	292.2	18.0	7.5	35°	454	454	454	455	456	284
50°-60°	261.4	16.1	6.7	45°	378	378	379	380	380	292
60°-70°	196.4	12.1	5.0	55°	292	292	292	293	293	261
70°-80°	108.8	6.7	2.8	65°	198	198	199	199	199	196
80°-90°	26.7	1.6	0.7	75°	102	102	102	103	103	108
90°-100°	0.0	0.0	0.0	85°	21	22	22	22	22	25
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	449.9	27.8	11.5	165°	0	0	0	0	0	0
0°-40°	734.3	45.3	18.8	175°	0	0	0	0	0	0
0°-60°	1287.9	79.5	33.0	180°	0	0	0	0	0	0
0°-90°	1619.8	100.0	41.5							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1619.8	100.0	41.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.4	579.4	579.4	579.4	579.4
2.5°	579.3	579.0	578.6	579.2	579.4
5°	578.1	577.7	577.4	578.0	578.4
7.5°	575.5	575.2	575.0	575.5	575.8
10°	571.5	571.2	571.0	571.6	571.9
12.5°	565.7	565.4	565.2	565.8	566.1
15°	558.3	558.0	557.9	558.5	558.7
17.5°	549.5	549.2	549.1	549.8	550.1
20°	539.2	539.0	539.1	539.7	539.9
22.5°	527.8	527.7	527.8	528.5	528.6
25°	515.2	515.2	515.3	516.0	516.2
27.5°	501.6	501.5	501.7	502.4	502.5
30°	486.7	486.7	486.9	487.7	487.9
32.5°	470.9	470.9	471.2	471.9	472.1
35°	454.0	454.1	454.5	455.3	455.5
37.5°	436.3	436.4	436.7	437.5	437.6
40°	417.7	417.7	418.2	419.0	419.0
42.5°	398.2	398.4	398.9	399.7	399.7
45°	378.2	378.4	378.8	379.6	379.7
47.5°	357.6	357.7	358.1	359.0	359.1
50°	336.3	336.5	336.9	337.6	338.0
52.5°	314.4	314.5	314.9	315.7	315.8
55°	291.8	292.0	292.4	293.1	293.3
57.5°	269.1	269.1	269.5	270.2	270.5
60°	245.7	245.7	246.4	247.0	247.3
62.5°	222.2	222.2	222.8	223.2	223.4
65°	198.2	198.2	198.6	199.1	199.2
67.5°	174.0	174.0	174.4	174.8	174.7
70°	149.5	149.8	150.2	150.4	150.6
72.5°	125.7	125.9	126.2	126.5	126.6
75°	102.1	102.3	102.5	102.8	103.0
77.5°	79.1	79.3	79.8	80.1	80.1
80°	57.6	57.9	58.2	58.6	58.6
82.5°	38.0	38.3	38.5	38.8	38.9
85°	21.3	21.5	21.9	22.0	22.3
87.5°	8.4	8.7	9.0	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)