

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: P273760

Luminaire Tested: **8RCG-4-78D-L835**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1804-709-7-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RCG-4-78D-L835
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

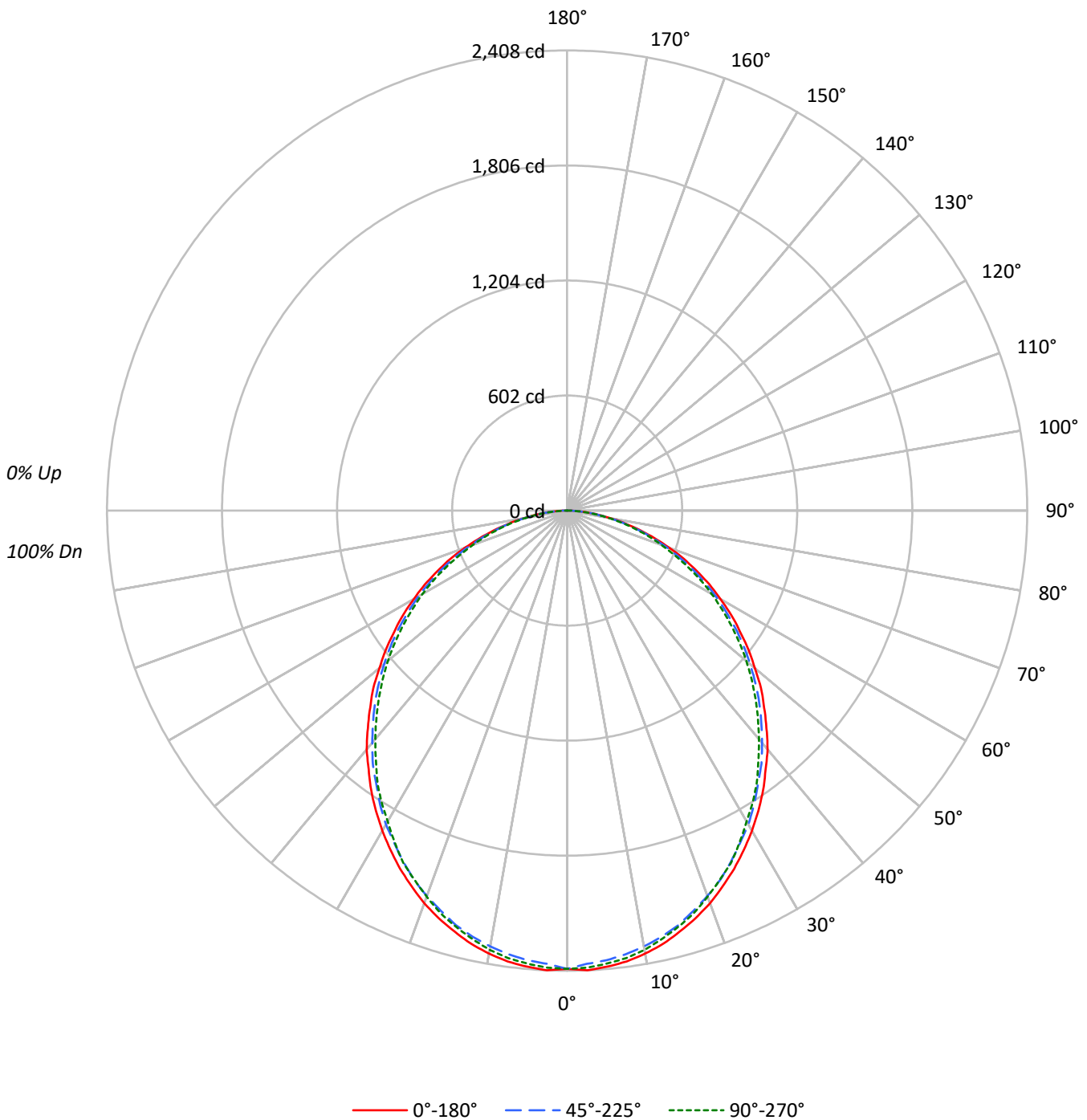
Lumens per Lamp: N/A
Luminaire Lumens: 6187.9 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

Input Watts (W): 51.8
Input Voltage (V): 120
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14303	14303	14303
5°	14345	14142	14250
10°	14257	14027	14136
15°	14079	13869	13918
20°	13875	13621	13646
25°	13610	13346	13373
30°	13320	13058	12934
35°	13019	12684	12611
40°	12707	12349	12162
45°	12298	11995	11758
50°	11896	11599	11357
55°	11480	11189	10898
60°	11046	10736	10426
65°	10557	10161	9823
70°	9905	9487	9138
75°	9080	8711	8434
80°	7969	7694	7419
85°	6707	6570	6022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	3.6
10°-20°	637.0	10.3
20°-30°	939.6	15.2
30°-40°	1096.3	17.7
40°-50°	1099.9	17.8
50°-60°	963.6	15.6
60°-70°	714.4	11.5
70°-80°	401.8	6.5
80°-90°	109.5	1.8
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°	1802.5	29.1
0°-40°	2898.8	46.8
0°-60°	4962.3	80.2
0°-90°	6187.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6187.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2398	2398	2398	2398	2398	
5°	2396	2388	2362	2386	2380	227
15°	2280	2274	2246	2258	2254	643
25°	2068	2056	2028	2034	2032	952
35°	1788	1774	1742	1736	1732	1117
45°	1458	1452	1422	1406	1394	1126
55°	1104	1104	1076	1056	1048	989
65°	748	740	720	702	696	741
75°	394	386	378	372	366	417
85°	98	98	96	92	88	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2398	2398	2398	2398	2398
2.5°	2408	2400	2374	2396	2394
5°	2396	2388	2362	2386	2380
7.5°	2380	2370	2342	2364	2362
10°	2354	2344	2316	2336	2334
12.5°	2322	2312	2284	2300	2296
15°	2280	2274	2246	2258	2254
17.5°	2236	2226	2196	2208	2208
20°	2186	2176	2146	2158	2150
22.5°	2128	2116	2092	2098	2090
25°	2068	2056	2028	2034	2032
27.5°	2002	1990	1960	1960	1956
30°	1934	1924	1896	1888	1878
32.5°	1862	1848	1822	1816	1808
35°	1788	1774	1742	1736	1732
37.5°	1706	1696	1670	1654	1644
40°	1632	1616	1586	1572	1562
42.5°	1544	1536	1504	1490	1478
45°	1458	1452	1422	1406	1394
47.5°	1376	1366	1336	1316	1310
50°	1282	1276	1250	1232	1224
52.5°	1196	1190	1164	1144	1136
55°	1104	1104	1076	1056	1048
57.5°	1020	1012	986	970	960
60°	926	920	900	878	874
62.5°	840	832	808	792	788
65°	748	740	720	702	696
67.5°	662	648	632	616	608
70°	568	560	544	532	524
72.5°	478	470	460	450	446
75°	394	386	378	372	366
77.5°	310	306	300	292	292
80°	232	228	224	218	216
82.5°	162	160	156	154	154
85°	98	98	96	92	88
87.5°	44	40	40	36	36
90°	0	0	0	0	0

(END OF REPORT)