

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: P273790

Luminaire Tested: **8RCG-4-100D-L930**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1804-709-7-R2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RCG-4-100D-L930
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

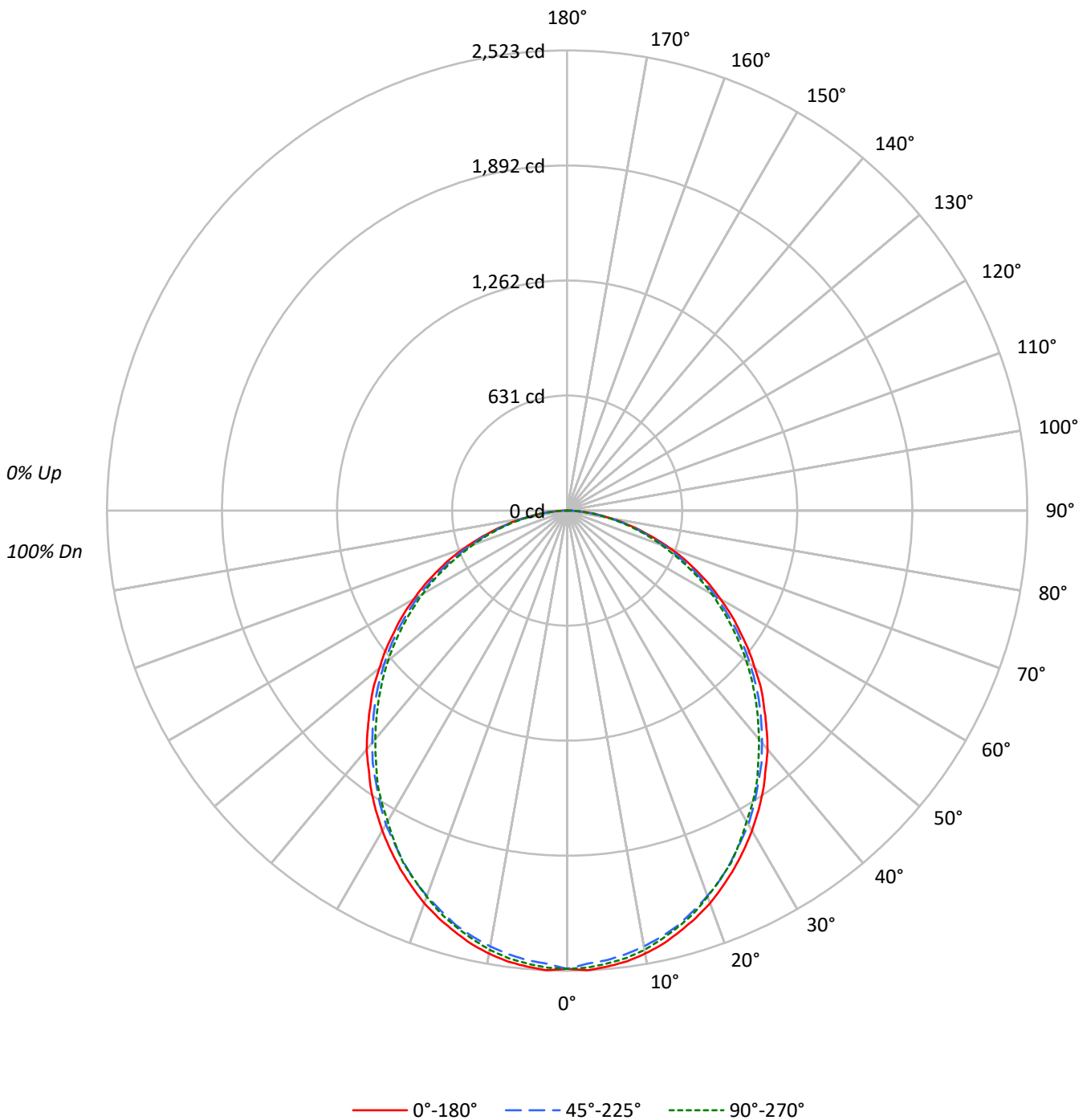
Lumens per Lamp: N/A
Luminaire Lumens: 6483.1 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

Input Watts (W): 68.8
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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CATALOG NUMBER: 8RCG-4-100D-L930

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°	14985	14985	14985
5°	15030	14816	14930
10°	14936	14695	14810
15°	14750	14531	14582
20°	14536	14271	14298
25°	14258	13983	14011
30°	13955	13681	13551
35°	13639	13290	13212
40°	13312	12937	12743
45°	12885	12566	12320
50°	12464	12152	11899
55°	12027	11723	11418
60°	11573	11249	10922
65°	11059	10647	10291
70°	10376	9940	9574
75°	9513	9126	8835
80°	8346	8058	7776
85°	7021	6884	6310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	3.6
10°-20°	667.4	10.3
20°-30°	984.5	15.2
30°-40°	1148.6	17.7
40°-50°	1152.4	17.8
50°-60°	1009.5	15.6
60°-70°	748.4	11.5
70°-80°	420.9	6.5
80°-90°	114.7	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°	1888.5	29.1
0°-40°	3037.1	46.8
0°-60°	5199.0	80.2
0°-90°	6483.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6483.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2510	2502	2475	2500	2494	238
15°	2389	2382	2353	2366	2362	674
25°	2167	2154	2125	2131	2129	998
35°	1873	1859	1825	1819	1815	1171
45°	1528	1521	1490	1473	1461	1180
55°	1157	1157	1127	1106	1098	1036
65°	784	775	754	735	729	777
75°	413	404	396	390	383	437
85°	103	103	101	96	92	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2522.8	2514.4	2487.2	2510.4	2508.2
5°	2510.4	2502.0	2474.6	2499.8	2493.6
7.5°	2493.6	2483.0	2453.8	2476.8	2474.6
10°	2466.2	2455.8	2426.4	2447.4	2445.4
12.5°	2432.8	2422.2	2393.0	2409.8	2405.6
15°	2388.8	2382.4	2353.2	2365.8	2361.6
17.5°	2342.6	2332.2	2300.8	2313.4	2313.4
20°	2290.2	2279.8	2248.4	2261.0	2252.6
22.5°	2229.6	2217.0	2191.8	2198.0	2189.8
25°	2166.6	2154.0	2124.8	2131.0	2129.0
27.5°	2097.6	2085.0	2053.6	2053.6	2049.4
30°	2026.2	2015.8	1986.4	1978.0	1967.6
32.5°	1950.8	1936.2	1909.0	1902.6	1894.2
35°	1873.2	1858.6	1825.2	1818.8	1814.6
37.5°	1787.4	1777.0	1749.6	1733.0	1722.4
40°	1709.8	1693.0	1661.6	1647.0	1636.6
42.5°	1617.6	1609.2	1575.8	1561.0	1548.6
45°	1527.6	1521.2	1489.8	1473.0	1460.6
47.5°	1441.6	1431.2	1399.8	1378.8	1372.4
50°	1343.2	1336.8	1309.6	1290.8	1282.4
52.5°	1253.0	1246.8	1219.6	1198.6	1190.2
55°	1156.6	1156.6	1127.4	1106.4	1098.0
57.5°	1068.6	1060.2	1033.0	1016.2	1005.8
60°	970.2	963.8	943.0	919.8	915.6
62.5°	880.0	871.6	846.6	829.8	825.6
65°	783.6	775.4	754.4	735.4	729.2
67.5°	693.6	679.0	662.2	645.4	637.0
70°	595.0	586.8	570.0	557.4	549.0
72.5°	500.8	492.4	482.0	471.4	467.2
75°	412.8	404.4	396.0	389.8	383.4
77.5°	324.8	320.6	314.4	306.0	306.0
80°	243.0	238.8	234.6	228.4	226.4
82.5°	169.8	167.6	163.4	161.4	161.4
85°	102.6	102.6	100.6	96.4	92.2
87.5°	46.0	42.0	42.0	37.8	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)