

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: P273769

Luminaire Tested: **8RCG-4-78D-L930**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273769
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-4-78D-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

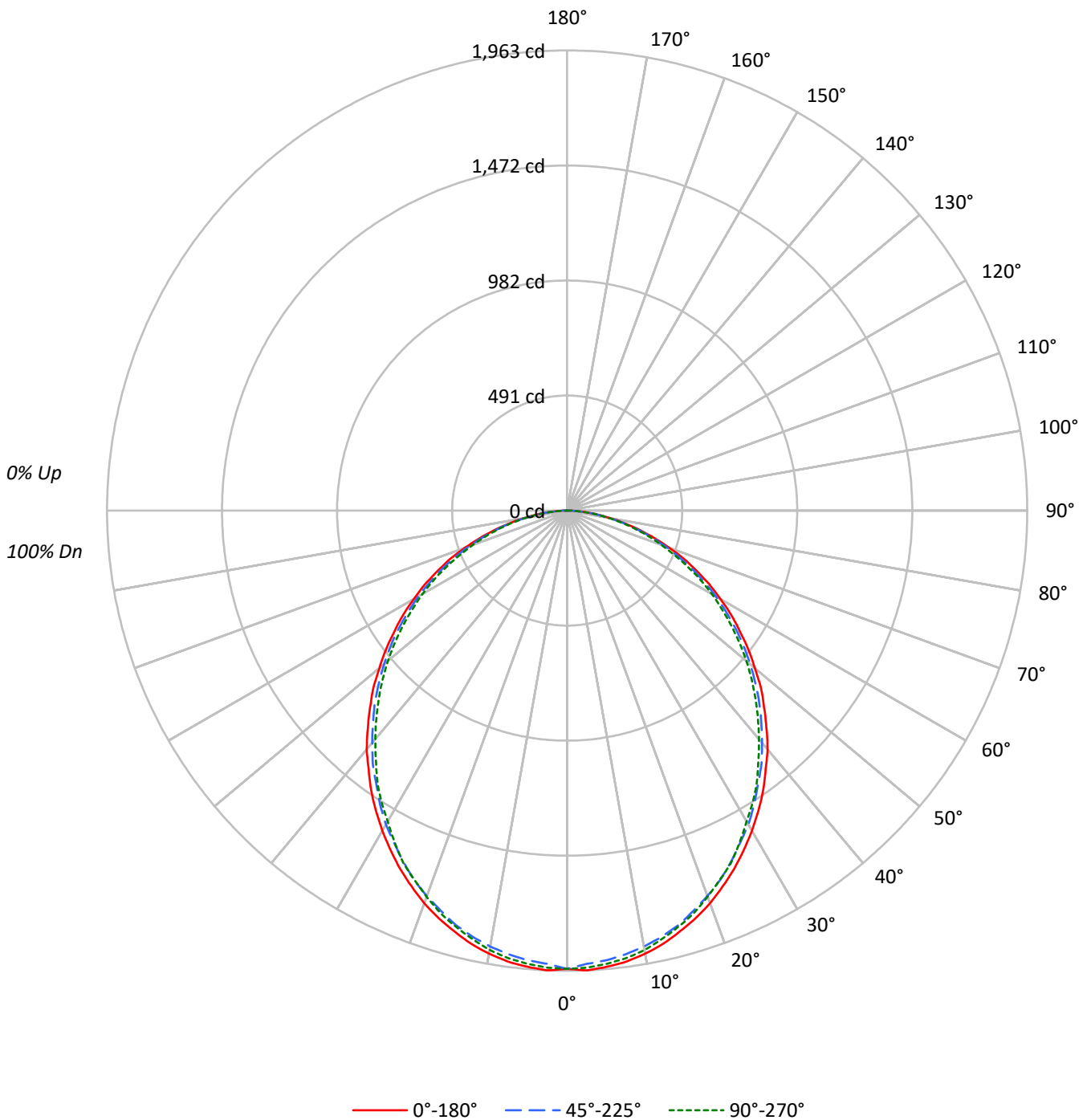
Lumens per Lamp: N/A
Luminaire Lumens: 5045.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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°	11660	11660	11660
5°	11695	11530	11618
10°	11623	11436	11525
15°	11478	11307	11347
20°	11312	11105	11125
25°	11096	10881	10902
30°	10860	10646	10546
35°	10615	10341	10281
40°	10360	10067	9915
45°	10027	9779	9587
50°	9698	9457	9260
55°	9359	9122	8885
60°	9006	8753	8500
65°	8606	8284	8008
70°	8074	7736	7450
75°	7402	7102	6877
80°	6499	6272	6052
85°	5461	5352	4914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	3.6
10°-20°	519.3	10.3
20°-30°	766.1	15.2
30°-40°	893.8	17.7
40°-50°	896.8	17.8
50°-60°	785.6	15.6
60°-70°	582.4	11.5
70°-80°	327.5	6.5
80°-90°	89.3	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°	1469.5	29.1
0°-40°	2363.4	46.8
0°-60°	4045.7	80.2
0°-90°	5045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1953	1947	1926	1945	1940	185
15°	1859	1854	1831	1841	1838	524
25°	1686	1676	1653	1658	1657	776
35°	1458	1446	1420	1415	1412	911
45°	1189	1184	1159	1146	1137	918
55°	900	900	877	861	854	806
65°	610	603	587	572	567	605
75°	321	315	308	303	298	340
85°	80	80	78	75	72	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1955.0	1955.0	1955.0	1955.0	1955.0
2.5°	1963.2	1956.8	1935.6	1953.4	1951.8
5°	1953.4	1947.0	1925.8	1945.4	1940.4
7.5°	1940.4	1932.2	1909.4	1927.4	1925.8
10°	1919.2	1911.0	1888.2	1904.6	1903.0
12.5°	1893.2	1885.0	1862.2	1875.2	1872.0
15°	1858.8	1854.0	1831.2	1841.0	1837.6
17.5°	1823.0	1814.8	1790.4	1800.2	1800.2
20°	1782.2	1774.0	1749.6	1759.4	1752.8
22.5°	1735.0	1725.2	1705.6	1710.4	1704.0
25°	1686.0	1676.2	1653.4	1658.4	1656.6
27.5°	1632.2	1622.4	1598.0	1598.0	1594.8
30°	1576.8	1568.6	1545.8	1539.2	1531.2
32.5°	1518.0	1506.6	1485.4	1480.6	1474.0
35°	1457.8	1446.4	1420.2	1415.4	1412.0
37.5°	1390.8	1382.8	1361.6	1348.6	1340.4
40°	1330.6	1317.6	1293.0	1281.6	1273.4
42.5°	1258.8	1252.2	1226.2	1214.8	1205.0
45°	1188.8	1183.8	1159.4	1146.4	1136.6
47.5°	1121.8	1113.6	1089.2	1073.0	1068.0
50°	1045.2	1040.4	1019.2	1004.4	998.0
52.5°	975.0	970.2	949.0	932.8	926.2
55°	900.0	900.0	877.2	861.0	854.4
57.5°	831.6	825.0	803.8	790.8	782.6
60°	755.0	750.0	733.8	715.8	712.6
62.5°	684.8	678.4	658.8	645.8	642.4
65°	609.8	603.4	587.0	572.4	567.4
67.5°	539.8	528.4	515.2	502.2	495.8
70°	463.0	456.6	443.6	433.8	427.2
72.5°	389.8	383.2	375.0	366.8	363.6
75°	321.2	314.8	308.2	303.2	298.4
77.5°	252.8	249.4	244.6	238.0	238.0
80°	189.2	185.8	182.6	177.8	176.2
82.5°	132.0	130.4	127.2	125.6	125.6
85°	79.8	79.8	78.2	75.0	71.8
87.5°	35.8	32.6	32.6	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)