

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: P273772

Luminaire Tested: **8RCG-4-78D-L935**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273772
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-L935
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

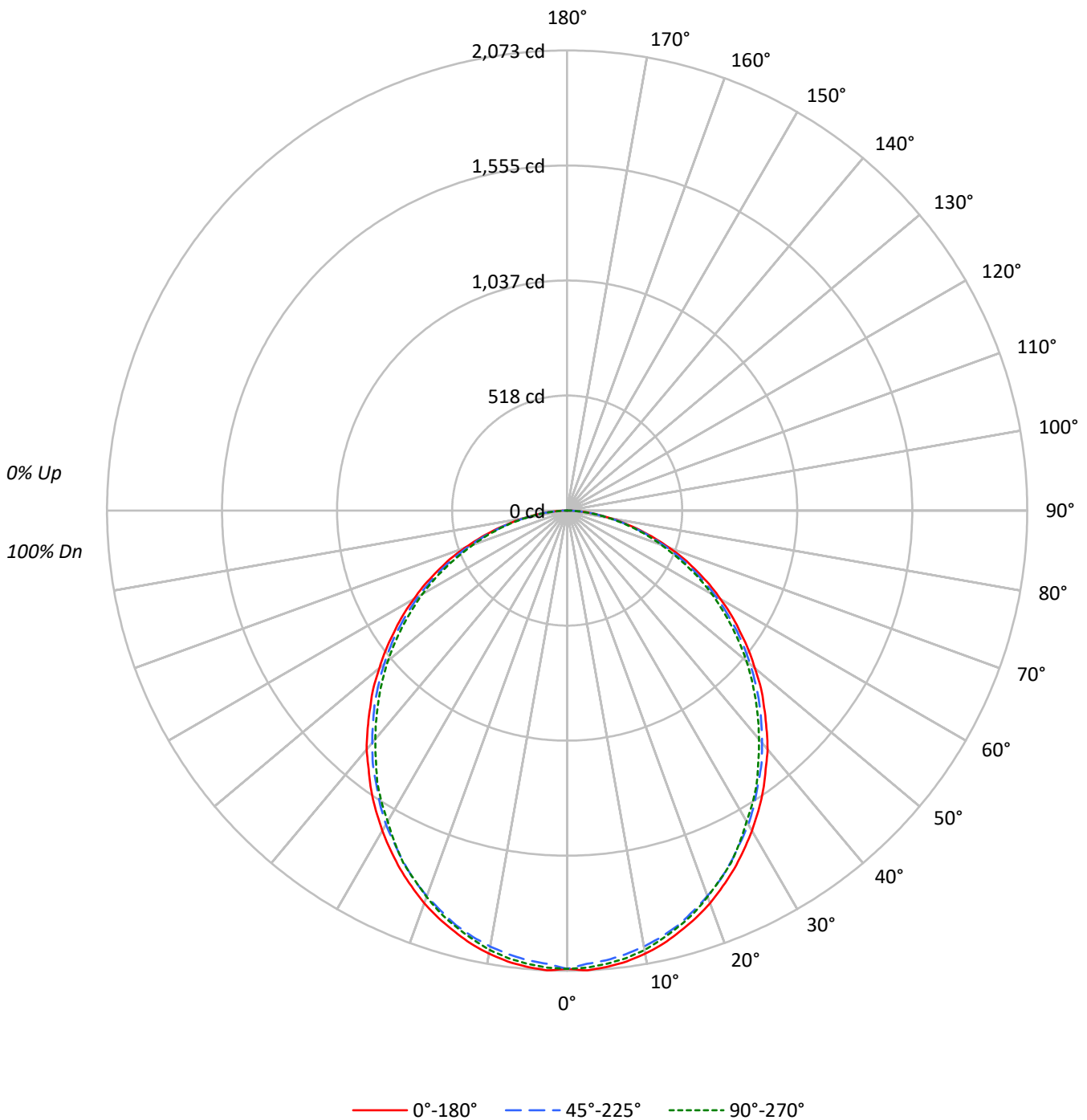
Lumens per Lamp: N/A
Luminaire Lumens: 5327.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	12314	12314	12314
5°	12352	12176	12269
10°	12275	12077	12171
15°	12121	11941	11983
20°	11947	11728	11750
25°	11718	11492	11514
30°	11468	11243	11136
35°	11209	10920	10858
40°	10941	10633	10471
45°	10589	10328	10124
50°	10242	9986	9778
55°	9885	9633	9384
60°	9510	9242	8978
65°	9089	8750	8457
70°	8528	8168	7868
75°	7817	7499	7264
80°	6863	6622	6389
85°	5776	5653	5187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	3.6
10°-20°	548.4	10.3
20°-30°	809.0	15.2
30°-40°	943.9	17.7
40°-50°	947.1	17.8
50°-60°	829.7	15.6
60°-70°	615.1	11.5
70°-80°	345.9	6.5
80°-90°	94.3	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°	1551.9	29.1
0°-40°	2495.9	46.8
0°-60°	4272.6	80.2
0°-90°	5327.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5327.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2063	2056	2034	2054	2049	196
15°	1963	1958	1934	1944	1941	554
25°	1781	1770	1746	1751	1750	820
35°	1539	1527	1500	1495	1491	962
45°	1255	1250	1224	1211	1200	970
55°	951	951	926	909	902	852
65°	644	637	620	604	599	638
75°	339	332	325	320	315	359
85°	84	84	83	79	76	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2064.6	2064.6	2064.6	2064.6	2064.6
2.5°	2073.2	2066.4	2044.0	2063.0	2061.2
5°	2063.0	2056.0	2033.6	2054.4	2049.2
7.5°	2049.2	2040.6	2016.4	2035.4	2033.6
10°	2026.8	2018.2	1994.0	2011.2	2009.6
12.5°	1999.2	1990.6	1966.6	1980.2	1976.8
15°	1963.0	1958.0	1933.8	1944.2	1940.6
17.5°	1925.2	1916.6	1890.8	1901.0	1901.0
20°	1882.2	1873.6	1847.8	1858.0	1851.2
22.5°	1832.2	1821.8	1801.2	1806.4	1799.4
25°	1780.6	1770.2	1746.2	1751.2	1749.6
27.5°	1723.8	1713.4	1687.6	1687.6	1684.2
30°	1665.2	1656.6	1632.4	1625.6	1617.0
32.5°	1603.2	1591.2	1568.8	1563.6	1556.6
35°	1539.4	1527.4	1499.8	1494.6	1491.2
37.5°	1468.8	1460.2	1437.8	1424.0	1415.4
40°	1405.2	1391.4	1365.6	1353.4	1344.8
42.5°	1329.4	1322.4	1295.0	1282.8	1272.6
45°	1255.4	1250.2	1224.4	1210.6	1200.2
47.5°	1184.8	1176.2	1150.2	1133.0	1128.0
50°	1103.8	1098.6	1076.2	1060.8	1053.8
52.5°	1029.8	1024.6	1002.2	985.0	978.0
55°	950.6	950.6	926.4	909.2	902.4
57.5°	878.2	871.4	849.0	835.2	826.6
60°	797.2	792.2	774.8	756.0	752.6
62.5°	723.2	716.4	695.6	682.0	678.4
65°	644.0	637.2	620.0	604.4	599.2
67.5°	570.0	558.0	544.2	530.4	523.4
70°	489.0	482.2	468.4	458.0	451.2
72.5°	411.6	404.6	396.0	387.4	384.0
75°	339.2	332.4	325.4	320.2	315.2
77.5°	267.0	263.4	258.2	251.4	251.4
80°	199.8	196.4	192.8	187.6	186.0
82.5°	139.4	137.8	134.4	132.6	132.6
85°	84.4	84.4	82.6	79.2	75.8
87.5°	37.8	34.4	34.4	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)