

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: P273721

Luminaire Tested: **8RCG-4-34D-L840**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273721
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-4-34D-L840
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

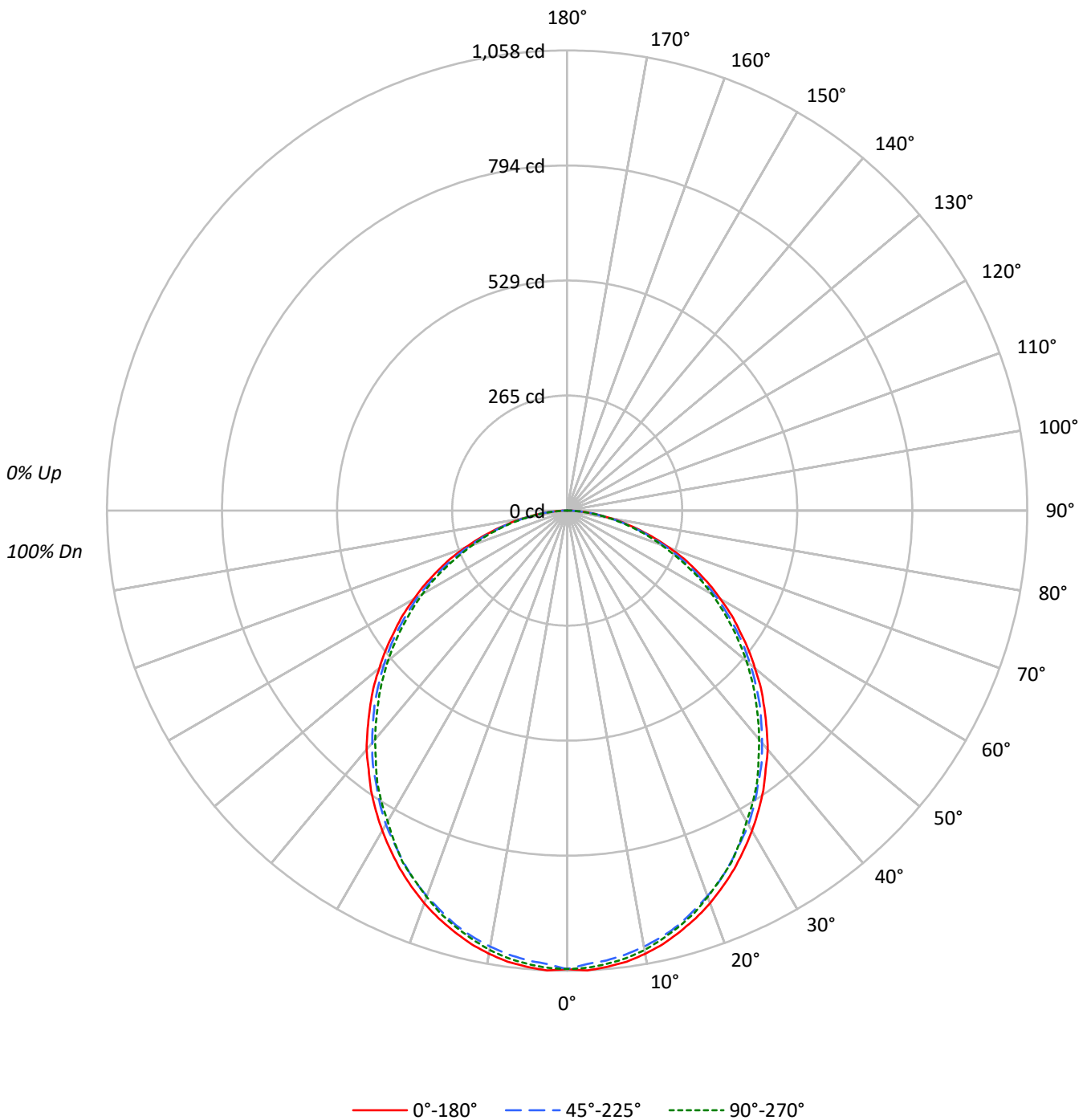
Lumens per Lamp: N/A
Luminaire Lumens: 2719.9 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 7.88' x H: 0')
CIE Type: Direct

Input Watts (W): 22.8
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



TEST NUMBER: P273721
CATALOG NUMBER: 8RCG-4-34D-L840

Luminous Intensity Polar Plot





TEST NUMBER: P273721

CATALOG NUMBER: 8RCG-4-34D-L840

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°	6286	6286	6286
5°	6306	6216	6264
10°	6266	6165	6213
15°	6188	6096	6118
20°	6098	5987	5998
25°	5982	5866	5878
30°	5854	5740	5685
35°	5723	5574	5542
40°	5586	5428	5346
45°	5405	5272	5169
50°	5228	5098	4992
55°	5045	4919	4790
60°	4855	4719	4583
65°	4640	4465	4319
70°	4353	4171	4018
75°	3991	3830	3706
80°	3503	3380	3263
85°	2943	2888	2642



TEST NUMBER: P273721

CATALOG NUMBER: 8RCG-4-34D-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.6
10°-20°	280.0	10.3
20°-30°	413.0	15.2
30°-40°	481.9	17.7
40°-50°	483.5	17.8
50°-60°	423.5	15.6
60°-70°	314.0	11.5
70°-80°	176.6	6.5
80°-90°	48.1	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°	792.3	29.1
0°-40°	1274.1	46.8
0°-60°	2181.1	80.2
0°-90°	2719.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1053	1050	1038	1049	1046	100
15°	1002	1000	987	992	991	283
25°	909	904	891	894	893	419
35°	786	780	766	763	761	491
45°	641	638	625	618	613	495
55°	485	485	473	464	461	435
65°	329	325	316	309	306	326
75°	173	170	166	164	161	183
85°	43	43	42	40	39	50
90°	0	0	0	0	0	



TEST NUMBER: P273721

CATALOG NUMBER: 8RCG-4-34D-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.0	1054.0	1054.0	1054.0	1054.0
2.5°	1058.4	1055.0	1043.4	1053.2	1052.2
5°	1053.2	1049.6	1038.2	1048.8	1046.2
7.5°	1046.2	1041.8	1029.4	1039.0	1038.2
10°	1034.6	1030.2	1018.0	1026.8	1025.8
12.5°	1020.6	1016.2	1004.0	1011.0	1009.2
15°	1002.2	999.6	987.2	992.4	990.8
17.5°	982.8	978.4	965.2	970.6	970.6
20°	960.8	956.4	943.2	948.6	945.0
22.5°	935.4	930.0	919.6	922.2	918.6
25°	909.0	903.8	891.4	894.0	893.2
27.5°	880.0	874.6	861.6	861.6	859.8
30°	850.0	845.6	833.4	829.8	825.4
32.5°	818.4	812.2	800.8	798.2	794.6
35°	786.0	779.8	765.6	763.0	761.2
37.5°	749.8	745.4	734.0	727.0	722.6
40°	717.4	710.4	697.2	691.0	686.6
42.5°	678.6	675.2	661.0	655.0	649.6
45°	640.8	638.2	625.0	618.0	612.8
47.5°	604.8	600.4	587.2	578.4	575.8
50°	563.4	560.8	549.4	541.6	538.0
52.5°	525.6	523.0	511.6	502.8	499.4
55°	485.2	485.2	473.0	464.2	460.6
57.5°	448.4	444.8	433.4	426.4	422.0
60°	407.0	404.4	395.6	386.0	384.2
62.5°	369.2	365.8	355.2	348.2	346.4
65°	328.8	325.2	316.4	308.6	306.0
67.5°	291.0	284.8	277.8	270.8	267.2
70°	249.6	246.2	239.2	233.8	230.4
72.5°	210.2	206.6	202.2	197.8	196.0
75°	173.2	169.6	166.2	163.6	160.8
77.5°	136.2	134.6	131.8	128.4	128.4
80°	102.0	100.2	98.4	95.8	95.0
82.5°	71.2	70.4	68.6	67.6	67.6
85°	43.0	43.0	42.2	40.4	38.6
87.5°	19.4	17.6	17.6	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)