

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: P273736

Luminaire Tested: **4RCG-4-56D-L830**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273736  
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: 4RCG-4-56D-L830  
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

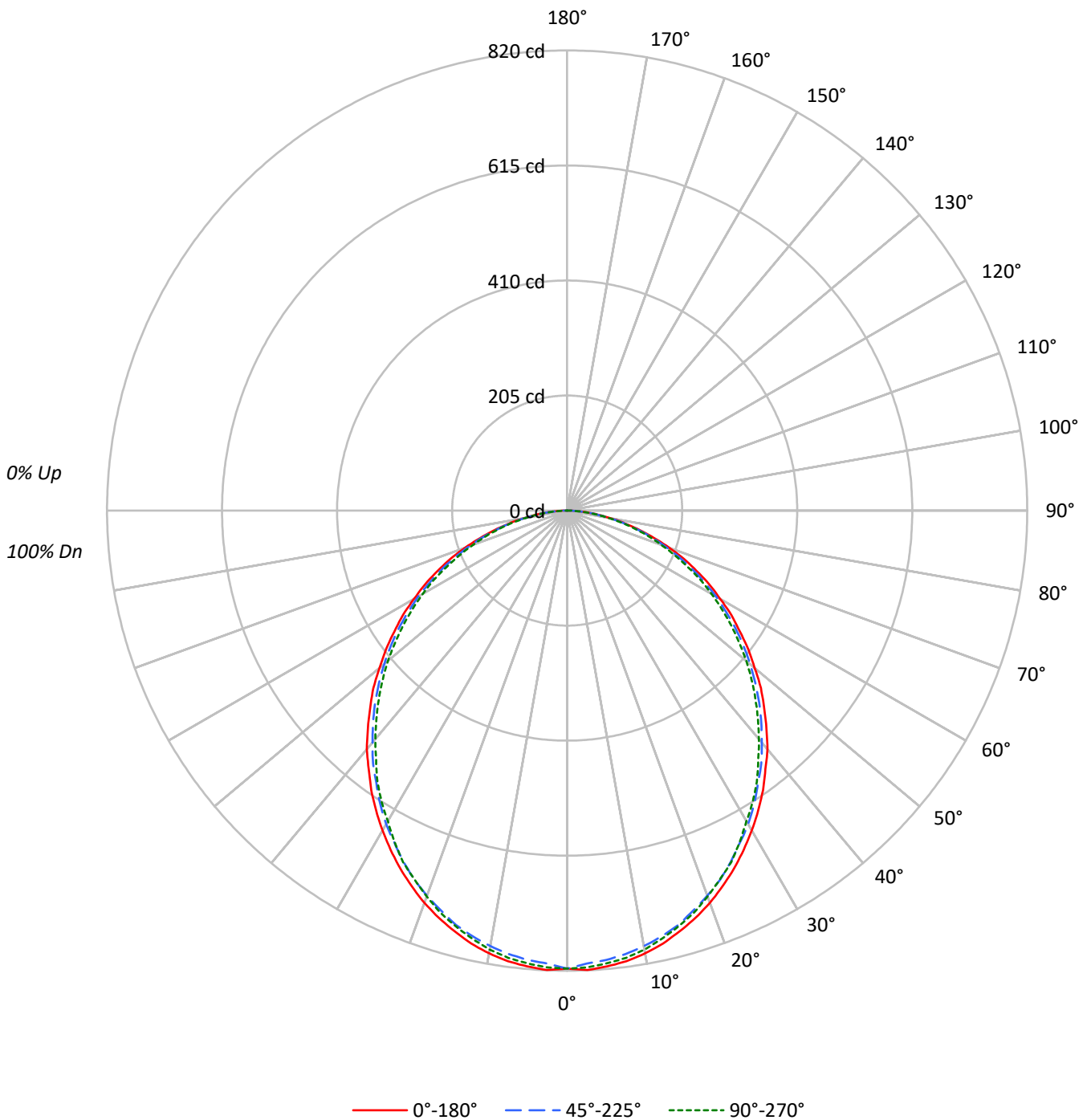
Lumens per Lamp: N/A  
Luminaire Lumens: 2105.9 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.6  
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°	9892	9892	9892
5°	9921	9780	9856
10°	9860	9701	9776
15°	9737	9592	9626
20°	9596	9420	9438
25°	9413	9231	9248
30°	9212	9030	8945
35°	9004	8772	8722
40°	8788	8540	8412
45°	8506	8295	8132
50°	8227	8022	7856
55°	7940	7739	7538
60°	7639	7425	7210
65°	7302	7027	6795
70°	6851	6560	6319
75°	6280	6023	5835
80°	5514	5319	5131
85°	4645	4548	4158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	3.6
10°-20°	216.8	10.3
20°-30°	319.8	15.2
30°-40°	373.1	17.7
40°-50°	374.3	17.8
50°-60°	327.9	15.6
60°-70°	243.1	11.5
70°-80°	136.7	6.5
80°-90°	37.3	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°	613.4	29.1
0°-40°	986.5	46.8
0°-60°	1688.8	80.2
0°-90°	2105.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	815	813	804	812	810	77
15°	776	774	764	768	767	219
25°	704	700	690	692	692	324
35°	608	604	593	591	589	380
45°	496	494	484	478	474	383
55°	376	376	366	359	357	337
65°	255	252	245	239	237	252
75°	134	131	129	127	125	142
85°	33	33	33	31	30	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816.1	816.1	816.1	816.1	816.1
2.5°	819.5	816.8	807.9	815.4	814.7
5°	815.4	812.7	803.8	812.0	810.0
7.5°	810.0	806.6	797.0	804.5	803.8
10°	801.1	797.7	788.2	795.0	794.3
12.5°	790.2	786.8	777.3	782.7	781.4
15°	775.9	773.9	764.4	768.4	767.1
17.5°	761.0	757.6	747.3	751.4	751.4
20°	743.9	740.5	730.3	734.4	731.7
22.5°	724.2	720.1	711.9	714.0	711.3
25°	703.8	699.7	690.2	692.2	691.5
27.5°	681.3	677.2	667.0	667.0	665.7
30°	658.2	654.8	645.2	642.5	639.1
32.5°	633.7	628.9	620.1	618.0	615.3
35°	608.5	603.7	592.8	590.8	589.4
37.5°	580.6	577.2	568.3	562.9	559.5
40°	555.4	550.0	539.7	535.0	531.6
42.5°	525.5	522.7	511.8	507.1	503.0
45°	496.2	494.1	483.9	478.5	474.4
47.5°	468.3	464.9	454.7	447.9	445.8
50°	436.3	434.2	425.4	419.3	416.6
52.5°	407.0	405.0	396.1	389.3	386.6
55°	375.7	375.7	366.2	359.4	356.7
57.5°	347.1	344.4	335.6	330.1	326.7
60°	315.1	313.1	306.3	298.8	297.4
62.5°	285.9	283.1	275.0	269.5	268.2
65°	254.6	251.8	245.0	238.9	236.9
67.5°	225.3	220.5	215.1	209.6	206.9
70°	193.3	190.6	185.1	181.1	178.3
72.5°	162.7	160.0	156.5	153.1	151.8
75°	134.1	131.4	128.6	126.6	124.6
77.5°	105.5	104.1	102.1	99.4	99.4
80°	79.0	77.6	76.2	74.2	73.5
82.5°	55.1	54.5	53.1	52.4	52.4
85°	33.4	33.4	32.7	31.3	29.9
87.5°	15.0	13.6	13.6	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)