

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: P273742

Luminaire Tested: **4RCG-4-56D-L840**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P273742  
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-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**

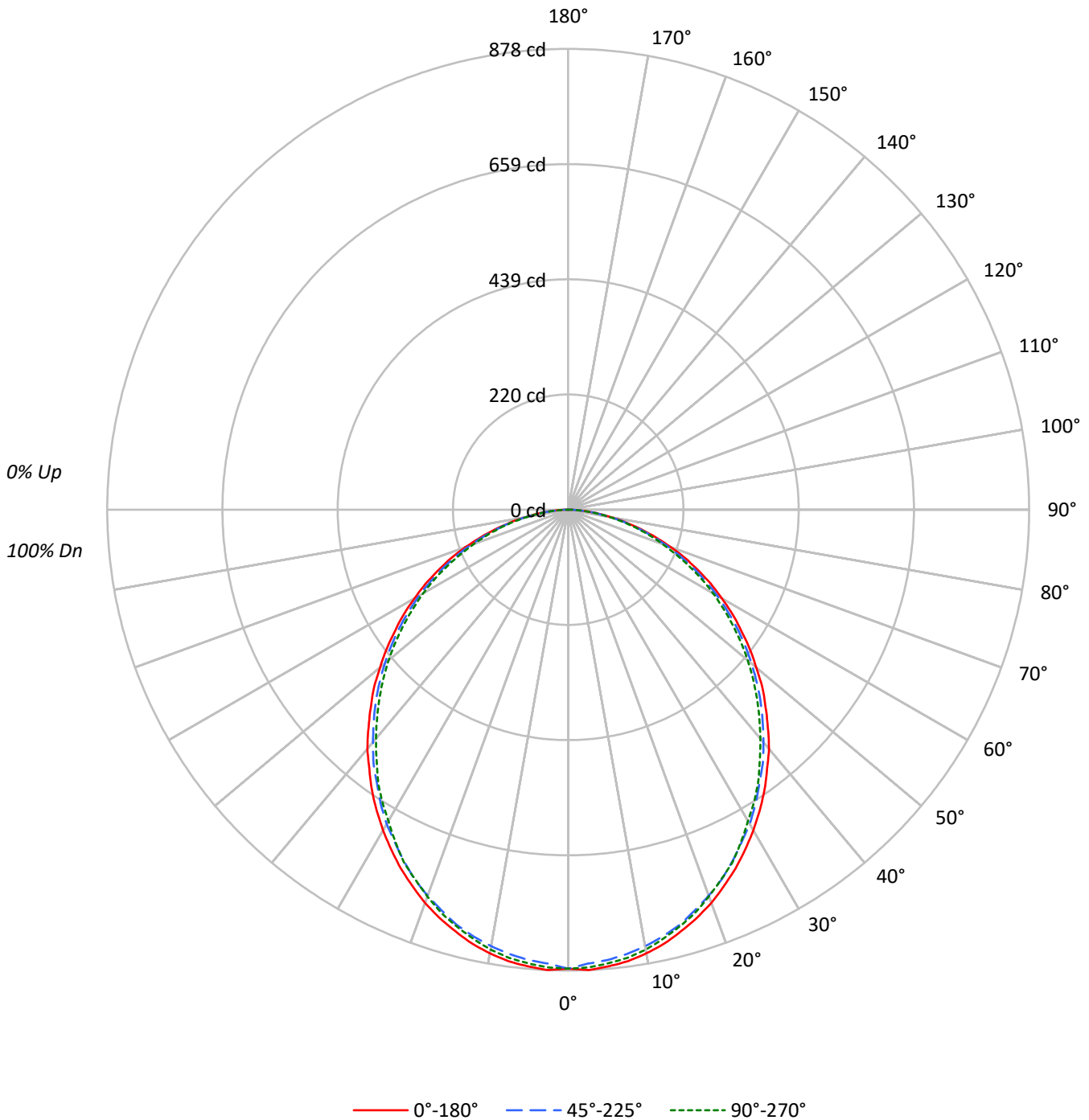
Lumens per Lamp: N/A  
Luminaire Lumens: 2256.3 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P273742  
CATALOG NUMBER: 4RCG-4-56D-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P273742

CATALOG NUMBER: 4RCG-4-56D-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°	10599	10599	10599
5°	10630	10480	10559
10°	10564	10394	10474
15°	10433	10277	10314
20°	10282	10094	10113
25°	10086	9890	9909
30°	9870	9676	9585
35°	9648	9399	9344
40°	9416	9151	9011
45°	9113	8888	8713
50°	8816	8595	8416
55°	8506	8290	8075
60°	8184	7956	7726
65°	7821	7529	7279
70°	7340	7031	6773
75°	6730	6454	6252
80°	5905	5703	5501
85°	4965	4868	4464



TEST NUMBER: P273742

CATALOG NUMBER: 4RCG-4-56D-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	3.6
10°-20°	232.3	10.3
20°-30°	342.6	15.2
30°-40°	399.8	17.7
40°-50°	401.1	17.8
50°-60°	351.3	15.6
60°-70°	260.5	11.5
70°-80°	146.5	6.5
80°-90°	39.9	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°	657.2	29.1
0°-40°	1057.0	46.8
0°-60°	1809.4	80.2
0°-90°	2256.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2256.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	874	871	861	870	868	83
15°	831	829	819	823	822	234
25°	754	750	740	742	741	347
35°	652	647	635	633	632	407
45°	532	529	518	513	508	411
55°	402	402	392	385	382	361
65°	273	270	262	256	254	270
75°	144	141	138	136	134	152
85°	36	36	35	34	32	42
90°	0	0	0	0	0	



TEST NUMBER: P273742

CATALOG NUMBER: 4RCG-4-56D-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	874.4	874.4	874.4	874.4	874.4
2.5°	878.0	875.1	865.6	873.6	872.9
5°	873.6	870.7	861.3	870.0	867.8
7.5°	867.8	864.2	854.0	862.0	861.3
10°	858.3	854.7	844.5	851.8	851.0
12.5°	846.7	843.0	832.8	838.6	837.2
15°	831.4	829.2	819.0	823.3	821.9
17.5°	815.3	811.7	800.7	805.1	805.1
20°	797.1	793.4	782.5	786.9	784.0
22.5°	775.9	771.6	762.8	765.0	762.1
25°	754.1	749.7	739.5	741.7	740.9
27.5°	730.0	725.6	714.7	714.7	713.2
30°	705.2	701.5	691.3	688.4	684.8
32.5°	678.9	673.8	664.4	662.2	659.2
35°	652.0	646.9	635.2	633.0	631.5
37.5°	622.1	618.4	608.9	603.1	599.4
40°	595.1	589.2	578.3	573.2	569.5
42.5°	563.0	560.1	548.4	543.3	538.9
45°	531.6	529.4	518.5	512.7	508.3
47.5°	501.7	498.1	487.1	479.9	477.7
50°	467.5	465.3	455.8	449.2	446.3
52.5°	436.1	433.9	424.4	417.1	414.2
55°	402.5	402.5	392.3	385.0	382.1
57.5°	371.9	369.0	359.5	353.7	350.0
60°	337.6	335.5	328.2	320.1	318.7
62.5°	306.3	303.4	294.6	288.8	287.3
65°	272.7	269.8	262.5	256.0	253.8
67.5°	241.4	236.3	230.4	224.6	221.7
70°	207.1	204.2	198.4	194.0	191.1
72.5°	174.3	171.4	167.7	164.1	162.6
75°	143.7	140.7	137.8	135.6	133.5
77.5°	113.0	111.6	109.4	106.5	106.5
80°	84.6	83.1	81.7	79.5	78.8
82.5°	59.1	58.3	56.9	56.2	56.2
85°	35.7	35.7	35.0	33.5	32.1
87.5°	16.0	14.6	14.6	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)