

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: P273739

Luminaire Tested: **4RCG-4-56D-L835**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273739
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-L835
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH FROST FLUSH LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

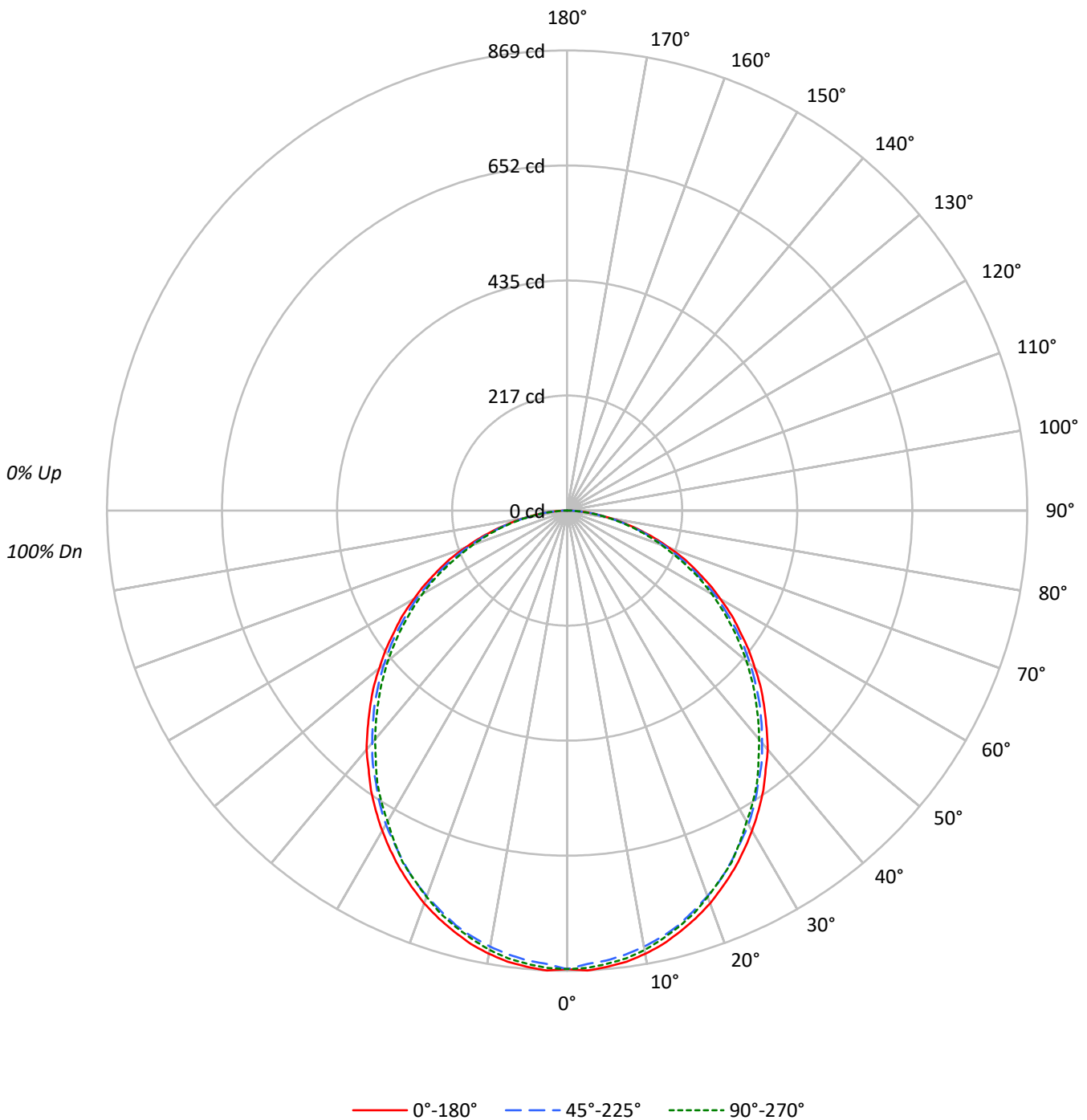
Lumens per Lamp: N/A
Luminaire Lumens: 2234.3 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

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°	10495	10495	10495
5°	10526	10376	10456
10°	10461	10292	10372
15°	10330	10177	10212
20°	10181	9994	10014
25°	9987	9793	9813
30°	9774	9582	9491
35°	9553	9307	9254
40°	9325	9062	8924
45°	9024	8801	8628
50°	8729	8510	8333
55°	8423	8210	7997
60°	8104	7879	7651
65°	7747	7457	7208
70°	7269	6960	6705
75°	6664	6393	6191
80°	5850	5647	5445
85°	4923	4826	4423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.6
10°-20°	230.0	10.3
20°-30°	339.3	15.2
30°-40°	395.9	17.7
40°-50°	397.2	17.8
50°-60°	347.9	15.6
60°-70°	257.9	11.5
70°-80°	145.1	6.5
80°-90°	39.5	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°	650.8	29.1
0°-40°	1046.7	46.8
0°-60°	1791.7	80.2
0°-90°	2234.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	865	862	853	862	859	82
15°	823	821	811	815	814	232
25°	747	742	732	734	734	344
35°	646	640	629	627	625	403
45°	526	524	513	508	503	407
55°	399	399	388	381	378	357
65°	270	267	260	254	251	268
75°	142	139	136	134	132	151
85°	35	35	35	33	32	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.8	865.8	865.8	865.8	865.8
2.5°	869.4	866.6	857.2	865.1	864.4
5°	865.1	862.2	852.8	861.5	859.3
7.5°	859.3	855.7	845.6	853.6	852.8
10°	849.9	846.3	836.2	843.5	842.7
12.5°	838.4	834.8	824.7	830.5	829.0
15°	823.2	821.1	811.0	815.3	813.8
17.5°	807.3	803.7	792.9	797.2	797.2
20°	789.3	785.7	774.8	779.2	776.3
22.5°	768.3	764.0	755.4	757.5	754.6
25°	746.7	742.4	732.2	734.4	733.7
27.5°	722.9	718.5	707.7	707.7	706.2
30°	698.3	694.7	684.6	681.7	678.1
32.5°	672.3	667.3	657.9	655.7	652.8
35°	645.6	640.5	629.0	626.8	625.4
37.5°	616.0	612.4	603.0	597.2	593.6
40°	589.3	583.5	572.7	567.6	564.0
42.5°	557.5	554.6	543.0	538.0	533.7
45°	526.4	524.3	513.4	507.7	503.3
47.5°	496.8	493.2	482.4	475.2	473.0
50°	462.9	460.7	451.3	444.8	441.9
52.5°	431.8	429.7	420.3	413.1	410.2
55°	398.6	398.6	388.5	381.3	378.4
57.5°	368.3	365.4	356.0	350.2	346.6
60°	334.3	332.2	325.0	317.0	315.6
62.5°	303.3	300.4	291.7	286.0	284.5
65°	270.1	267.2	260.0	253.5	251.3
67.5°	239.0	234.0	228.2	222.4	219.5
70°	205.1	202.2	196.4	192.1	189.2
72.5°	172.6	169.7	166.1	162.5	161.0
75°	142.3	139.4	136.5	134.3	132.2
77.5°	111.9	110.5	108.3	105.4	105.4
80°	83.8	82.3	80.9	78.7	78.0
82.5°	58.5	57.8	56.3	55.6	55.6
85°	35.4	35.4	34.7	33.2	31.8
87.5°	15.9	14.4	14.4	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)