

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P475434

Luminaire Tested: **14CZ2-35-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475434
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-RDP-UNV-L840-CD1-U
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

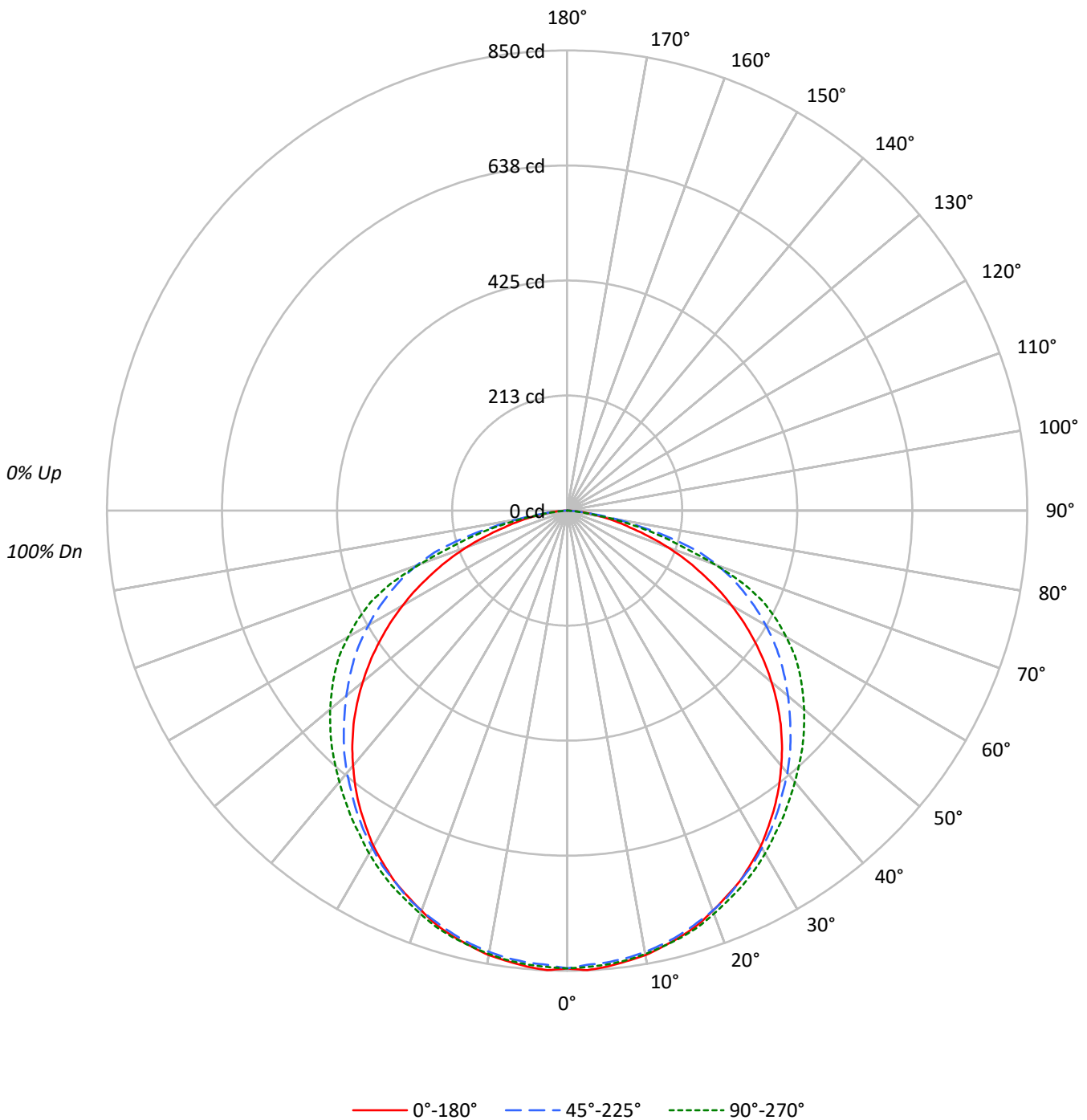
Lumens per Lamp: N/A
Luminaire Lumens: 2525.2 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2276	2276	2276
5°	2284	2263	2274
10°	2279	2263	2273
15°	2268	2257	2274
20°	2253	2253	2269
25°	2242	2242	2271
30°	2224	2236	2273
35°	2195	2228	2280
40°	2161	2223	2299
45°	2123	2221	2341
50°	2063	2228	2393
55°	1989	2257	2460
60°	1889	2281	2514
65°	1745	2309	2548
70°	1551	2327	2280
75°	1251	2091	1825
80°	978	1466	1192
85°	670	426	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	3.2
10°-20°	229.7	9.1
20°-30°	349.7	13.8
30°-40°	425.9	16.9
40°-50°	451.9	17.9
50°-60°	426.5	16.9
60°-70°	344.4	13.6
70°-80°	186.8	7.4
80°-90°	30.2	1.2
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°	659.4	26.1
0°-40°	1085.4	43.0
0°-60°	1963.8	77.8
0°-90°	2525.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2525.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	846	844	838	844	842	80
15°	814	812	810	816	816	230
25°	755	753	755	763	765	348
35°	668	672	678	692	694	418
45°	558	566	584	605	615	430
55°	424	442	481	513	524	379
65°	274	308	363	392	400	272
75°	120	176	201	181	176	131
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.7	845.7	845.7	845.7	845.7
2.5°	849.7	845.7	839.8	845.7	843.8
5°	845.7	843.8	837.9	843.8	841.8
7.5°	839.8	839.8	833.9	837.9	837.9
10°	833.9	831.9	828.0	833.9	831.9
12.5°	824.1	822.1	820.1	826.0	824.1
15°	814.2	812.2	810.3	816.2	816.2
17.5°	802.4	800.4	798.4	806.3	806.3
20°	786.6	786.6	786.6	794.5	792.5
22.5°	770.8	770.8	772.8	780.7	778.7
25°	755.1	753.1	755.1	762.9	764.9
27.5°	735.3	737.3	739.3	747.2	749.1
30°	715.6	717.6	719.6	729.4	731.4
32.5°	692.0	695.9	699.9	711.7	711.7
35°	668.3	672.3	678.2	692.0	693.9
37.5°	642.7	646.6	654.5	670.3	674.2
40°	615.1	621.0	632.8	648.6	654.5
42.5°	587.5	595.4	609.2	626.9	634.8
45°	557.9	565.8	583.5	605.2	615.1
47.5°	526.4	536.2	557.9	585.5	593.4
50°	492.9	506.7	532.3	561.9	571.7
52.5°	459.3	475.1	506.7	538.2	548.1
55°	423.9	441.6	481.0	512.6	524.4
57.5°	388.4	408.1	453.4	486.9	498.8
60°	350.9	374.6	423.9	457.4	467.2
62.5°	313.5	341.1	394.3	427.8	435.7
65°	274.0	307.5	362.7	392.3	400.2
67.5°	236.6	276.0	331.2	352.9	352.9
70°	197.1	240.5	295.7	301.6	289.8
72.5°	157.7	207.0	256.3	234.6	224.7
75°	120.3	175.5	201.1	181.4	175.5
77.5°	90.7	141.9	141.9	130.1	126.2
80°	63.1	108.4	94.6	82.8	76.9
82.5°	41.4	61.1	49.3	39.4	33.5
85°	21.7	23.7	13.8	11.8	9.9
87.5°	7.9	3.9	2.0	3.9	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)