

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: P#

Luminaire Tested: **22CZ-LD5-24SE-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24SE-S-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

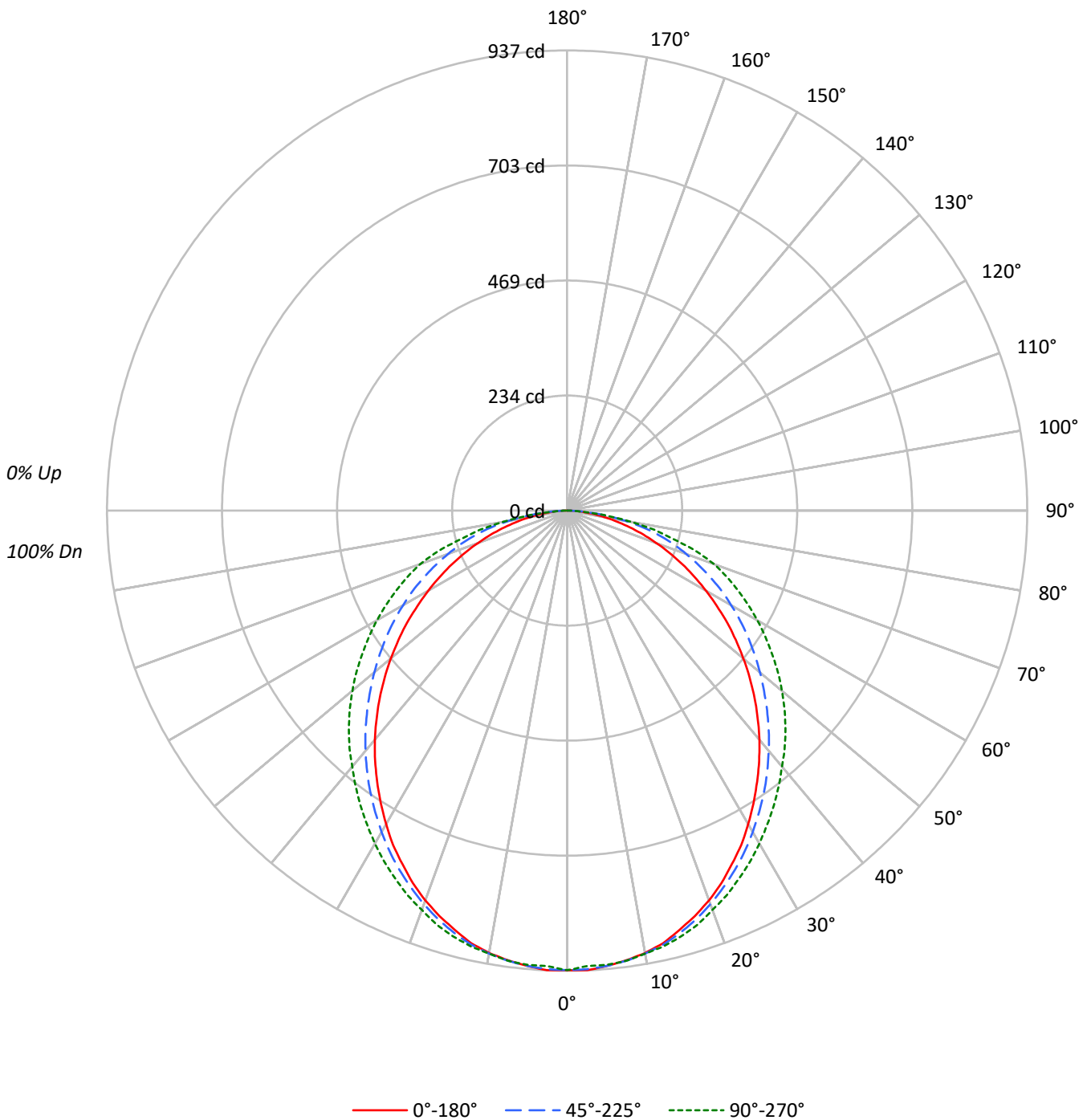
Lumens per Lamp: N/A
Luminaire Lumens: 2566.7 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 21.1
Input Voltage (V): NR
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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2518	2518	2518
5°	2503	2499	2497
10°	2478	2472	2481
15°	2430	2434	2467
20°	2375	2382	2434
25°	2304	2321	2400
30°	2226	2256	2364
35°	2140	2188	2328
40°	2053	2118	2294
45°	1957	2046	2279
50°	1851	1980	2255
55°	1744	1918	2230
60°	1618	1850	2216
65°	1489	1779	2205
70°	1339	1698	2200
75°	1156	1593	1955
80°	938	1336	1578
85°	631	779	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.4
10°-20°	251.0	9.8
20°-30°	372.8	14.5
30°-40°	438.8	17.1
40°-50°	447.4	17.4
50°-60°	403.5	15.7
60°-70°	317.8	12.4
70°-80°	196.0	7.6
80°-90°	50.9	2.0
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°	712.2	27.7
0°-40°	1151.0	44.8
0°-60°	2001.9	78.0
0°-90°	2566.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	931	932	931	930	928	88
15°	884	888	890	895	898	249
25°	794	799	808	821	827	366
35°	674	682	699	721	734	422
45°	540	549	576	610	629	416
55°	398	412	450	491	509	355
65°	259	277	322	362	383	256
75°	132	154	194	216	223	141
85°	32	41	46	43	41	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.7	935.7	935.7	935.7	935.7
2.5°	936.9	936.9	934.5	932.0	928.3
5°	930.8	932.0	930.8	929.5	928.3
7.5°	923.4	924.6	924.6	924.6	924.6
10°	914.7	916.0	916.0	916.0	916.0
12.5°	902.4	903.6	904.9	906.1	908.6
15°	883.9	887.6	890.1	895.0	897.5
17.5°	865.4	869.1	872.8	879.0	883.9
20°	844.5	846.9	853.1	860.5	865.4
22.5°	821.1	824.7	830.9	840.8	848.2
25°	793.9	798.9	807.5	821.1	827.2
27.5°	768.0	771.7	782.8	797.6	806.3
30°	737.2	742.2	755.7	774.2	782.8
32.5°	706.4	712.6	727.4	748.3	758.2
35°	674.3	681.7	699.0	721.2	733.5
37.5°	642.3	649.7	669.4	694.1	707.6
40°	609.0	616.4	638.6	665.7	680.5
42.5°	574.5	583.1	607.8	638.6	655.9
45°	540.0	548.6	575.7	610.2	628.7
47.5°	504.2	514.1	543.7	581.9	600.4
50°	468.5	479.6	512.8	552.3	570.8
52.5°	432.7	445.0	480.8	521.5	541.2
55°	398.2	411.8	450.0	490.7	509.2
57.5°	361.2	377.2	417.9	457.4	478.3
60°	326.7	344.0	385.9	425.3	447.5
62.5°	292.2	310.7	355.0	394.5	415.5
65°	258.9	277.4	321.8	362.4	383.4
67.5°	225.6	246.6	289.7	330.4	351.4
70°	193.6	215.7	257.7	297.1	318.1
72.5°	162.7	184.9	226.8	263.8	276.1
75°	131.9	154.1	193.6	215.7	223.1
77.5°	103.6	124.5	159.0	172.6	182.5
80°	77.7	96.2	120.8	129.4	130.7
82.5°	53.0	69.0	83.8	85.1	83.8
85°	32.1	40.7	45.6	43.1	40.7
87.5°	14.8	16.0	14.8	9.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)