

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: P213792

Luminaire Tested: **22GR-LD5-43-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-A-UNV-L950-CD1-U  
Description: METALUX GR 2X2 LED TROFFER WITH A LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4364.4 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

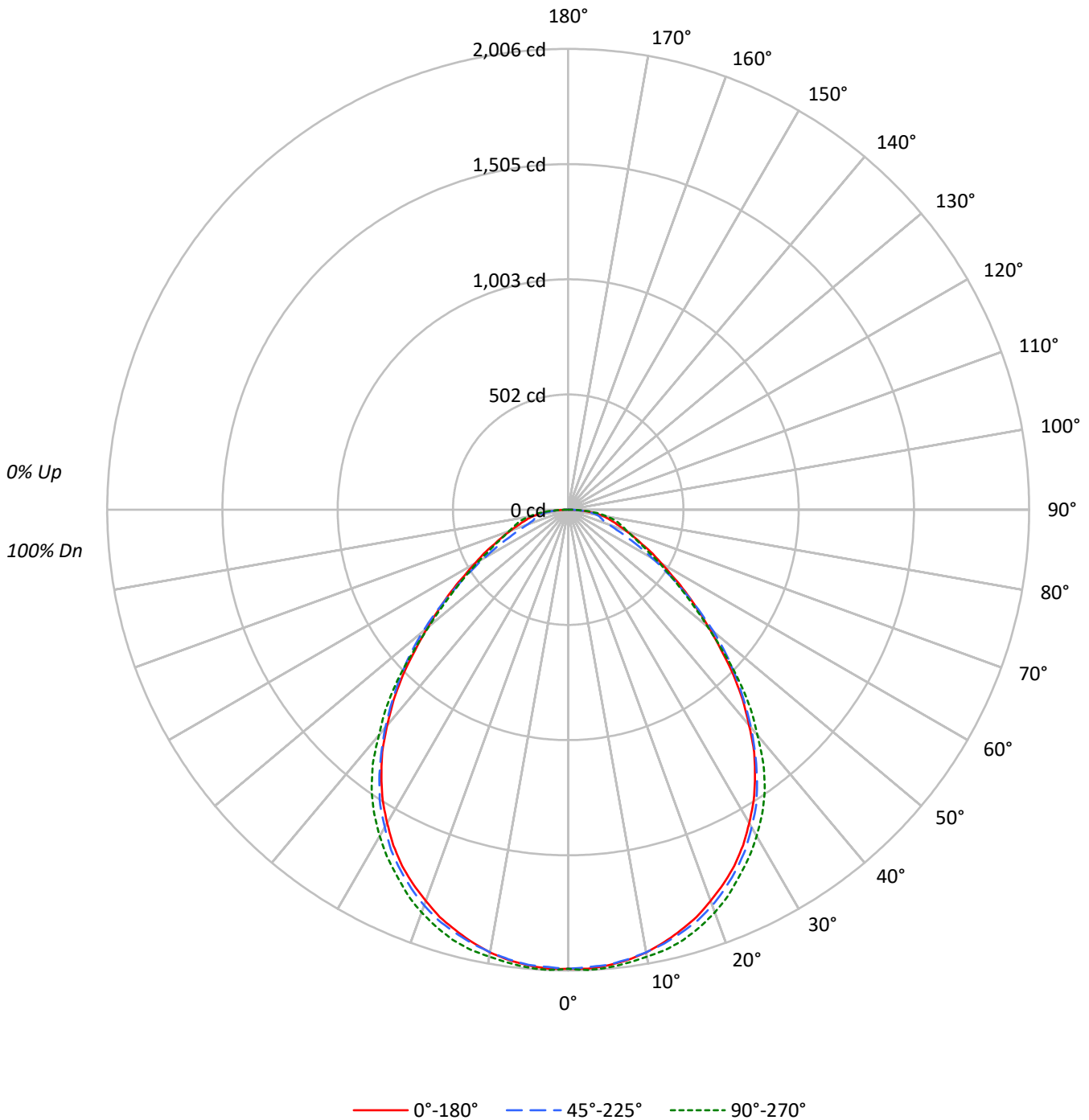
Input Watts (W): 40.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6401	6401	6401
5°	6402	6392	6432
10°	6364	6361	6423
15°	6283	6317	6428
20°	6175	6248	6358
25°	6043	6111	6223
30°	5825	5904	6065
35°	5539	5603	5829
40°	5121	5176	5358
45°	4600	4683	4756
50°	3977	4119	3937
55°	3470	3380	3334
60°	3005	2706	2888
65°	2686	2124	2594
70°	2492	1759	2558
75°	2488	1860	2840
80°	2753	2340	3202
85°	2873	2539	3623



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.1	4.3
10°-20°	538.7	12.3
20°-30°	796.7	18.3
30°-40°	899.1	20.6
40°-50°	792.6	18.2
50°-60°	543.7	12.5
60°-70°	320.8	7.4
70°-80°	200.2	4.6
80°-90°	83.5	1.9
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°	1524.6	34.9
0°-40°	2423.6	55.5
0°-60°	3759.9	86.1
0°-90°	4364.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4364.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	1992	1988	1988	1996	2001	189
15°	1895	1897	1905	1929	1939	534
25°	1710	1716	1730	1752	1761	785
35°	1417	1429	1433	1468	1491	883
45°	1016	1021	1034	1040	1050	780
55°	622	606	605	585	597	558
65°	354	312	280	324	342	357
75°	201	181	150	210	230	216
85°	78	73	69	90	99	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1998.7	1998.7	1998.7	1998.7	1998.7
2.5°	1999.7	1994.6	1992.6	2000.7	2005.8
5°	1991.6	1987.5	1988.5	1995.6	2000.7
7.5°	1977.4	1974.3	1974.3	1984.5	1989.6
10°	1957.0	1956.0	1956.0	1968.2	1975.3
12.5°	1928.7	1929.7	1933.8	1949.9	1962.1
15°	1895.2	1897.2	1905.3	1928.7	1938.8
17.5°	1858.6	1858.6	1874.8	1893.1	1905.3
20°	1811.8	1814.9	1833.2	1853.5	1865.7
22.5°	1764.1	1769.2	1784.4	1807.8	1819.0
25°	1710.3	1716.4	1729.5	1751.9	1761.0
27.5°	1647.3	1655.5	1669.7	1685.9	1705.2
30°	1575.2	1587.4	1596.5	1618.9	1640.2
32.5°	1502.0	1513.2	1523.4	1546.8	1571.1
35°	1416.8	1429.0	1433.1	1467.6	1490.9
37.5°	1329.4	1334.5	1336.5	1371.1	1396.5
40°	1224.9	1235.0	1238.1	1265.4	1281.7
42.5°	1124.3	1128.3	1134.4	1154.8	1174.1
45°	1015.7	1020.7	1033.9	1039.9	1050.1
47.5°	901.9	917.1	932.3	913.0	914.0
50°	798.3	810.4	826.7	790.2	790.2
52.5°	705.9	712.0	713.0	682.5	688.6
55°	621.5	606.3	605.3	584.9	597.1
57.5°	537.3	517.0	509.9	503.8	518.0
60°	469.2	432.6	422.5	431.6	450.9
62.5°	413.3	366.6	347.3	370.7	387.9
65°	354.4	311.8	280.3	324.0	342.3
67.5°	308.8	268.1	227.5	289.5	302.7
70°	266.1	234.6	187.9	263.1	273.2
72.5°	231.6	207.2	162.5	237.7	249.8
75°	201.1	180.8	150.3	210.2	229.5
77.5°	176.7	154.3	140.1	181.8	205.1
80°	149.3	126.9	126.9	152.3	173.6
82.5°	117.8	99.6	102.6	123.9	139.1
85°	78.2	73.2	69.1	90.4	98.6
87.5°	39.6	40.6	36.6	46.7	47.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)