

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: P225896

Luminaire Tested: **14GR-LD5-36-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F1-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3210.4 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

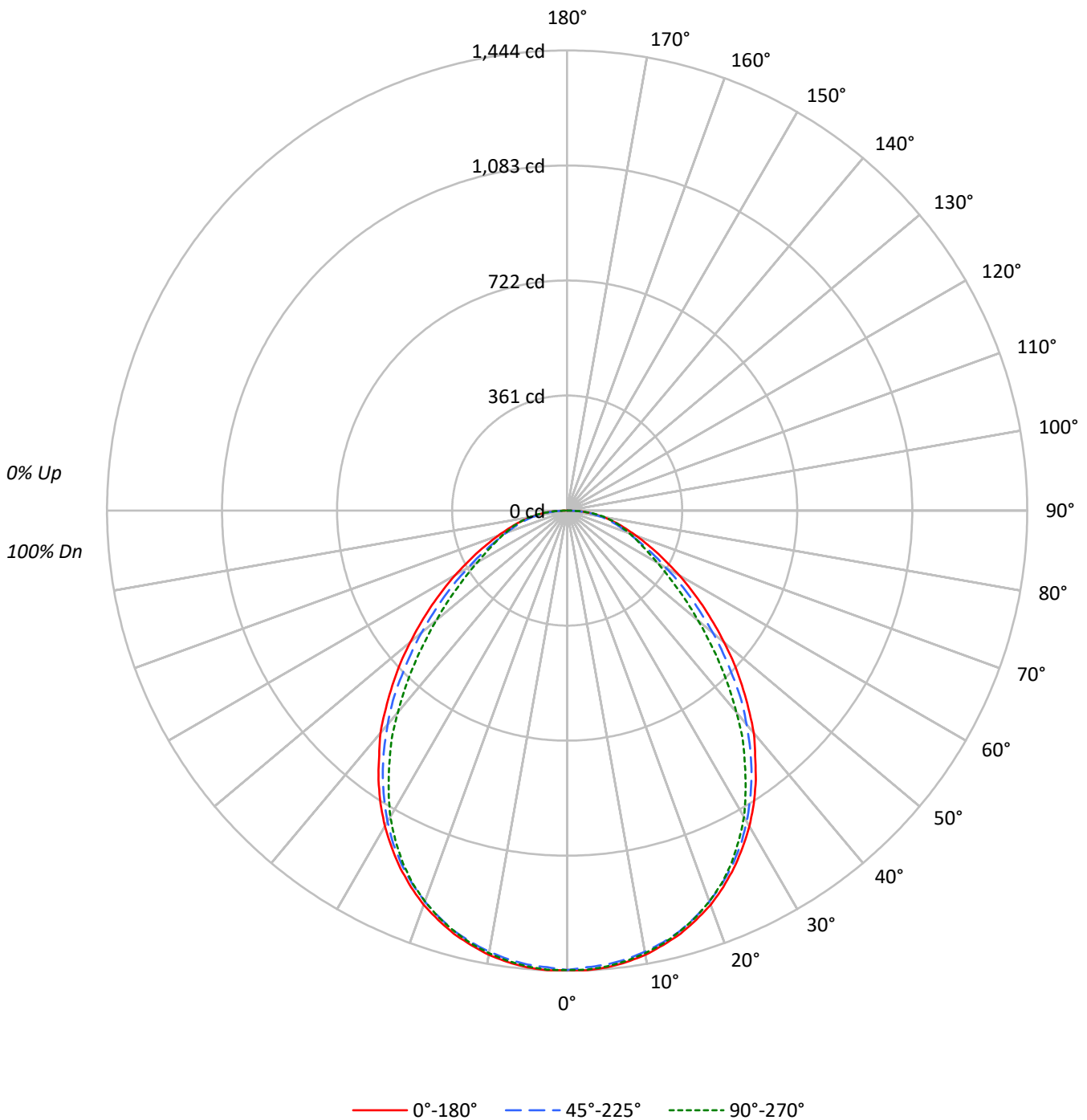
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225896

CATALOG NUMBER: 14GR-LD5-36-F1-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225896

CATALOG NUMBER: 14GR-LD5-36-F1-UNV-L940-CD1-U

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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37		48	41	37		46	41	36	34
9	60	47	39	34	58	46	39	34	45	38	33		44	38	33		43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	30		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4859	4859	4859
5°	4867	4837	4857
10°	4844	4810	4826
15°	4795	4766	4769
20°	4721	4681	4678
25°	4603	4561	4536
30°	4450	4385	4318
35°	4245	4149	4001
40°	4009	3854	3633
45°	3696	3503	3221
50°	3366	3131	2813
55°	3042	2769	2452
60°	2737	2409	2192
65°	2457	2151	2055
70°	2266	2001	2037
75°	2186	1980	2147
80°	2197	2065	2327
85°	2347	2146	2436



TEST NUMBER: P225896

CATALOG NUMBER: 14GR-LD5-36-F1-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	4.2
10°-20°	385.8	12.0
20°-30°	564.7	17.6
30°-40°	627.6	19.5
40°-50°	564.2	17.6
50°-60°	421.9	13.1
60°-70°	277.8	8.7
70°-80°	168.9	5.3
80°-90°	63.2	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°	1086.7	33.9
0°-40°	1714.3	53.4
0°-60°	2700.5	84.1
0°-90°	3210.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3210.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1439	1436	1430	1437	1436	137
15°	1374	1371	1366	1371	1367	387
25°	1238	1236	1227	1225	1220	569
35°	1032	1027	1009	987	973	644
45°	776	767	735	696	676	598
55°	518	507	471	432	417	465
65°	308	297	270	258	258	308
75°	168	160	152	160	165	179
85°	61	56	56	64	63	65
90°	0	0	0	0	0	



TEST NUMBER: P225896

CATALOG NUMBER: 14GR-LD5-36-F1-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1444.1	1441.1	1434.4	1442.6	1441.9
5°	1438.9	1435.9	1429.9	1437.4	1435.9
7.5°	1429.1	1425.4	1420.1	1427.6	1425.4
10°	1415.6	1411.9	1405.9	1414.2	1410.4
12.5°	1396.1	1393.9	1388.0	1393.9	1391.7
15°	1374.5	1371.4	1366.2	1370.7	1367.0
17.5°	1346.7	1343.7	1337.7	1343.7	1339.2
20°	1316.7	1313.0	1305.5	1310.0	1304.7
22.5°	1279.2	1275.6	1268.8	1271.0	1266.5
25°	1238.1	1235.8	1226.8	1224.6	1220.1
27.5°	1192.3	1188.6	1180.4	1175.9	1166.8
30°	1143.6	1139.8	1127.1	1119.6	1109.9
32.5°	1090.4	1084.4	1069.4	1056.7	1042.4
35°	1031.9	1026.7	1008.7	987.0	972.7
37.5°	969.0	966.0	943.5	916.5	905.3
40°	911.3	900.1	876.1	843.1	825.9
42.5°	842.4	834.9	809.3	772.6	751.0
45°	775.6	767.4	735.2	695.5	676.0
47.5°	710.4	701.4	664.7	625.7	603.3
50°	642.2	634.8	597.3	553.8	536.6
52.5°	578.5	568.8	529.8	490.9	475.8
55°	517.8	506.6	471.4	432.4	417.4
57.5°	460.1	446.7	413.0	379.2	369.5
60°	406.2	391.2	357.5	332.7	325.3
62.5°	353.7	342.5	312.5	293.8	289.3
65°	308.1	296.8	269.8	258.5	257.8
67.5°	266.1	254.8	233.8	230.8	232.3
70°	230.0	220.3	203.1	204.6	206.8
72.5°	196.3	187.4	176.9	180.6	185.1
75°	167.9	160.4	152.1	159.6	164.9
77.5°	140.9	133.4	128.9	136.4	142.4
80°	113.2	107.9	106.4	114.6	119.9
82.5°	87.7	83.2	80.9	91.4	93.7
85°	60.7	56.2	55.5	64.4	63.0
87.5°	32.2	28.5	28.5	33.7	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)