

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: Fail-Safe

Report Number: CRT2007161432-008

Luminaire Tested: **24GTR-6-GUV4-R1**

Test Date: 7/31/20

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-41-14
Report Number: CRT2007161432-008
The data set was measured in RADIOMETRIC UNITS. The following applies
Test Lab: Intertek Cortland
Test Date: 7/31/20
Issue Date: 7/31/20
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: Fail-Safe
Catalog Number: 24GTR-6-GUV4-R1
Description: GTR Recessed Luminaire
Light Source: 6 Philips TUV 36W/G36 T8
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

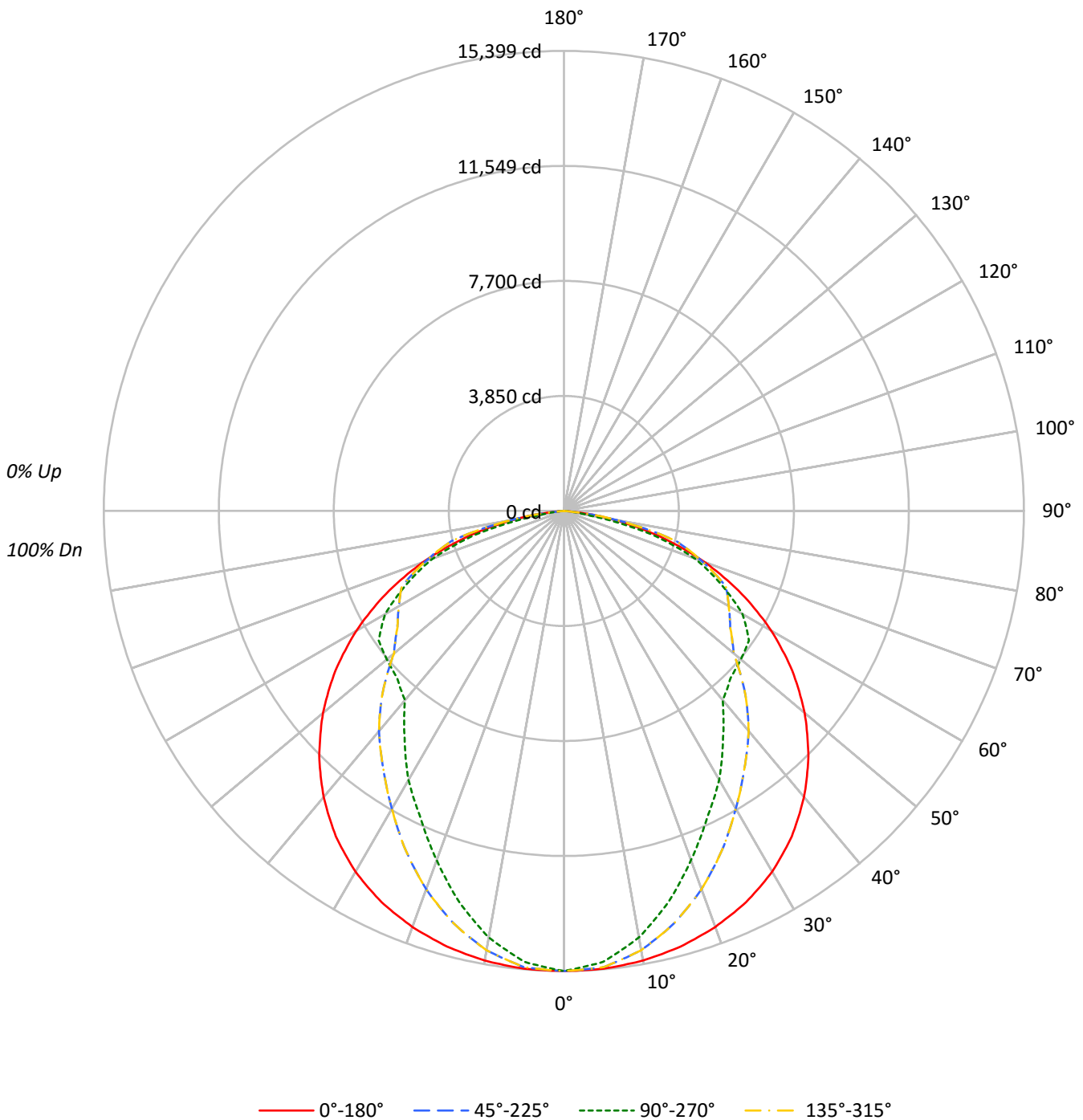
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41595.9 lumens
Efficiency: N/A
Efficacy: 227.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.03 / 1.25
Luminous Opening: Rectangular (W 1.96' x L: 3.96' x H: 0')
CIE Type: Direct

Input Watts (W): 182.57
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21356	21356	21356	21356
5°	21407	21089	21407	21089
10°	21517	20408	21517	20408
15°	21671	19446	21671	19446
20°	21867	18364	21867	18364
25°	22103	17352	22103	17352
30°	22333	16649	22333	16649
35°	22515	15731	22515	15731
40°	22642	14975	22642	14975
45°	22709	15484	22709	15484
50°	22703	16686	22703	16686
55°	22575	18291	22575	18291
60°	22236	19160	22236	19160
65°	21572	19065	21572	19065
70°	20367	18989	20367	18989
75°	17972	16343	17972	16343
80°	13649	7212	13649	7212
85°	4073	1305	4073	1305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1447.7	3.5
10°-20°	4030.0	9.7
20°-30°	5863.8	14.1
30°-40°	6826.5	16.4
40°-50°	6995.9	16.8
50°-60°	6772.5	16.3
60°-70°	5732.2	13.8
70°-80°	3394.4	8.2
80°-90°	533.0	1.3
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°	11341.5	27.3
0°-40°	18168.0	43.7
0°-60°	31936.4	76.8
0°-90°	41595.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41595.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	15399	15399	15399	15399	15399	
5°	15377	15149	15377	15149	15377	###
15°	15094	13544	15094	13544	15094	4267
25°	14445	11340	14445	11340	14445	6662
35°	13299	9292	13299	9292	13299	8318
45°	11579	7895	11579	7895	11579	8926
55°	9337	7565	9337	7565	9337	8330
65°	6574	5810	6574	5810	6574	6484
75°	3354	3050	3354	3050	3354	3544
85°	256	82	256	82	256	586
90°	0	0	0	0	0	35
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	15399	15399	15399	15399	15399	15399	15399	15399	15399	15399	15399
5°	15377	15379	15324	15229	15149	15229	15324	15379	15377	15379	15324
10°	15280	15188	14926	14644	14492	14644	14926	15188	15280	15188	14926
15°	15094	14854	14286	13778	13544	13778	14286	14854	15094	14854	14286
20°	14817	14381	13472	12751	12443	12751	13472	14381	14817	14381	13472
25°	14445	13766	12528	11651	11340	11651	12528	13766	14445	13766	12528
30°	13946	13056	11509	10689	10397	10689	11509	13056	13946	13056	11509
35°	13299	12101	10534	9706	9292	9706	10534	12101	13299	12101	10534
40°	12507	11054	9626	8585	8272	8585	9626	11054	12507	11054	9626
45°	11579	9948	8569	7861	7895	7861	8569	9948	11579	9948	8569
50°	10523	8751	7418	7645	7734	7645	7418	8751	10523	8751	7418
55°	9337	7587	6796	7443	7565	7443	6796	7587	9337	7587	6796
60°	8017	6394	6372	7224	6908	7224	6372	6394	8017	6394	6372
65°	6574	5131	5987	5808	5810	5808	5987	5131	6574	5131	5987
70°	5023	3824	4917	5289	4683	5289	4917	3824	5023	3824	4917
75°	3354	2891	3886	3218	3050	3218	3886	2891	3354	2891	3886
80°	1709	2022	1864	1016	903	1016	1864	2022	1709	2022	1864
85°	256	464	100	83	82	83	100	464	256	464	100
90°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	15399	15399	15399	15399	15399	15399
5°	15229	15149	15229	15324	15379	15377
10°	14644	14492	14644	14926	15188	15280
15°	13778	13544	13778	14286	14854	15094
20°	12751	12443	12751	13472	14381	14817
25°	11651	11340	11651	12528	13766	14445
30°	10689	10397	10689	11509	13056	13946
35°	9706	9292	9706	10534	12101	13299
40°	8585	8272	8585	9626	11054	12507
45°	7861	7895	7861	8569	9948	11579
50°	7645	7734	7645	7418	8751	10523
55°	7443	7565	7443	6796	7587	9337
60°	7224	6908	7224	6372	6394	8017
65°	5808	5810	5808	5987	5131	6574
70°	5289	4683	5289	4917	3824	5023
75°	3218	3050	3218	3886	2891	3354
80°	1016	903	1016	1864	2022	1709
85°	83	82	83	100	464	256
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
100°	0	0	0	0	0	0
105°	0	0	0	0	0	0
110°	0	0	0	0	0	0
115°	0	0	0	0	0	0
120°	0	0	0	0	0	0
125°	0	0	0	0	0	0
130°	0	0	0	0	0	0
135°	0	0	0	0	0	0
140°	0	0	0	0	0	0
145°	0	0	0	0	0	0
150°	0	0	0	0	0	0
155°	0	0	0	0	0	0
160°	0	0	0	0	0	0
165°	0	0	0	0	0	0
170°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

(END OF REPORT)