

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: 249p112

Luminaire Tested: **LF4025224AH**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: 249p112
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LF4025224AH
Description: TRACK FIXTURE SPECULAR REFLECTOR W/BLADE LOUVER
Light Source: TWO - PHILIPS - F24T5HO830 - 1750 LUMENS - 24 WATTS
Ballast/Driver: QUICKTRONIC QTP2X39-24T5HO/UNV-PSN

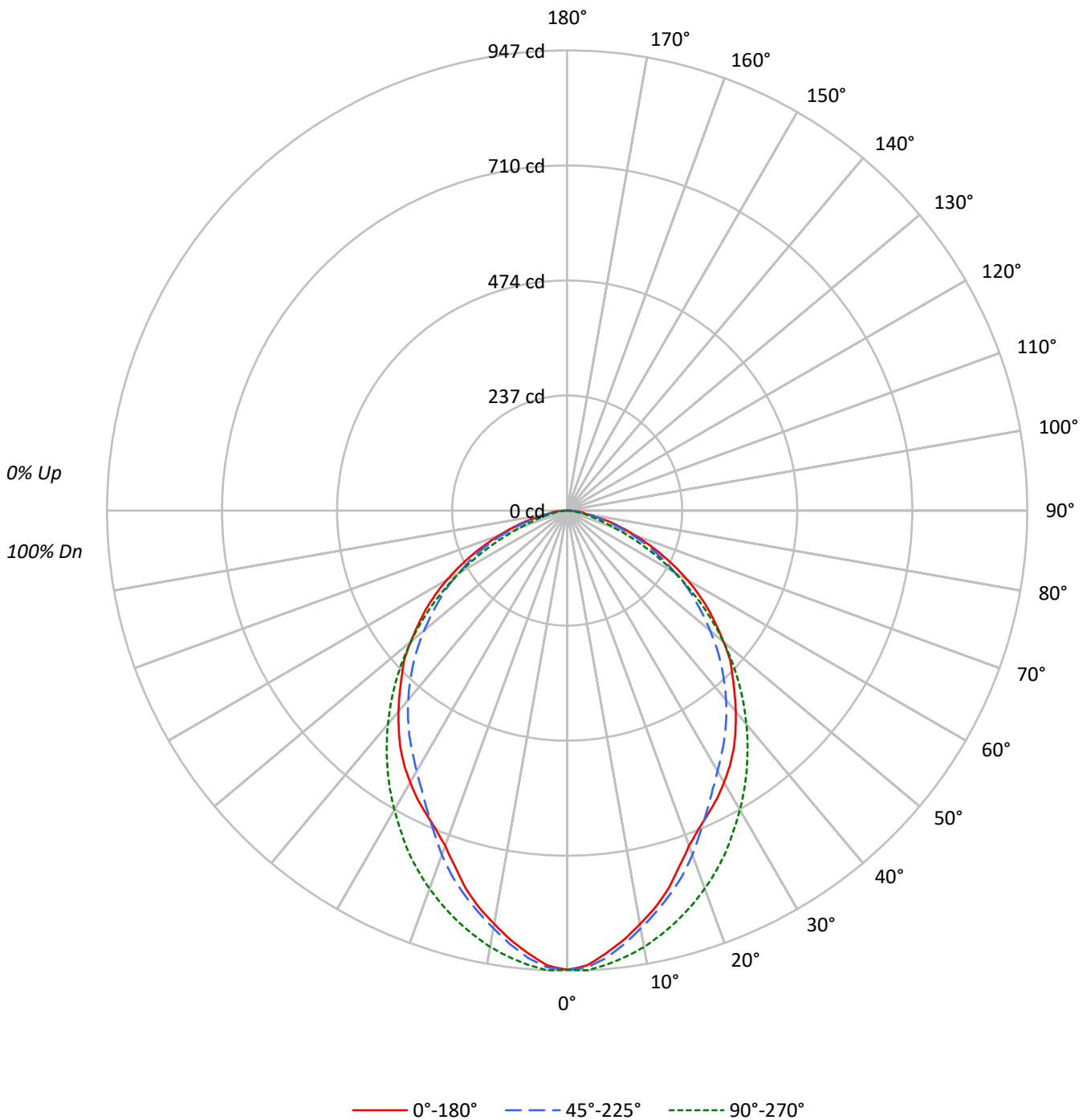
Summary

Lumens per Lamp: 1750 (2 lamps)
Luminaire Lumens: 1958.2 lumens
Efficiency: 55.9%
Efficacy: 43.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.13 / 1.17
Luminous Opening: Rectangular (W 1.88' x L: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56
1	62	59	57	55	60	58	56	54	56	54	52	53	52	51	51	50	49	48
2	56	52	49	46	55	51	48	45	49	47	44	47	45	43	46	44	42	41
3	52	46	42	39	50	45	42	38	44	40	38	42	39	37	41	38	36	35
4	48	41	37	33	46	41	36	33	39	36	33	38	35	32	37	34	32	31
5	44	37	32	29	43	37	32	29	35	32	29	34	31	28	33	30	28	27
6	41	34	29	26	40	33	29	25	32	28	25	31	28	25	30	27	25	24
7	38	31	26	23	37	30	26	23	29	25	23	29	25	22	28	25	22	21
8	35	28	24	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19
9	33	26	22	19	32	26	21	19	25	21	18	24	21	18	24	21	18	17
10	31	24	20	17	30	24	20	17	23	19	17	23	19	17	22	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18600	18600	18600
5°	18078	18256	18533
10°	17268	17448	18227
15°	16403	16668	17809
20°	15374	15793	17343
25°	14942	14789	16809
30°	14682	14068	16159
35°	14369	13600	15498
40°	13875	13078	14748
45°	13389	12470	13890
50°	12861	11758	12861
55°	12182	11015	11633
60°	11258	10156	10077
65°	10013	9221	8197
70°	8517	7827	5927
75°	6996	6160	4335
80°	4194	4987	3174
85°	5646	3613	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	86.9	4.4	2.5
10°-20°	232.1	11.9	6.6
20°-30°	324.3	16.6	9.3
30°-40°	367.6	18.8	10.5
40°-50°	355.7	18.2	10.2
50°-60°	294.9	15.1	8.4
60°-70°	194.1	9.9	5.5
70°-80°	84.1	4.3	2.4
80°-90°	18.5	0.9	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	643.3	32.9	18.4
0°-40°	1010.9	51.6	28.9
0°-60°	1661.5	84.8	47.5
0°-90°	1958.2	100.0	55.9
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1958.2	100.0	55.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	915	917	924	933	938	86
15°	805	807	818	844	874	225
25°	688	677	681	725	774	318
35°	598	582	566	584	645	373
45°	481	463	448	442	499	372
55°	355	338	321	313	339	316
65°	215	206	198	185	176	213
75°	92	84	81	72	57	95
85°	25	16	16	17	9	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945	945	945	945	945
2.5°	937	938	941	944	947
5°	915	917	924	933	938
7.5°	891	892	900	916	926
10°	864	864	873	895	912
12.5°	837	836	846	870	894
15°	805	807	818	844	874
17.5°	768	769	788	816	852
20°	734	733	754	787	828
22.5°	708	702	716	756	802
25°	688	677	681	725	774
27.5°	668	655	648	692	742
30°	646	632	619	658	711
32.5°	623	608	592	621	679
35°	598	582	566	584	645
37.5°	569	555	538	548	610
40°	540	525	509	512	574
42.5°	510	494	479	476	537
45°	481	463	448	442	499
47.5°	455	433	417	409	460
50°	420	406	384	378	420
52.5°	387	370	352	346	379
55°	355	338	321	313	339
57.5°	321	306	292	282	297
60°	286	273	258	250	256
62.5°	250	240	228	218	215
65°	215	206	198	185	176
67.5°	181	173	166	152	138
70°	148	141	136	123	103
72.5°	118	110	108	95	77
75°	92	84	81	72	57
77.5°	60	56	61	54	41
80°	37	28	44	39	28
82.5°	33	20	23	26	17
85°	25	16	16	17	9
87.5°	12	10	12	10	3
90°	0	0	0	0	0

(END OF REPORT)