

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: McGRAW-EDISON

Report Number: P#

Luminaire Tested: **BRT6-A4-730-U-T5S-XX-BK**

Issue Date: 1/14/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-849-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/14/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: BRT6-A4-730-U-T5S-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, 4000LM, TYPE V SQUARE SYMMETRICAL, BLACK FINISH  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3977.1 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

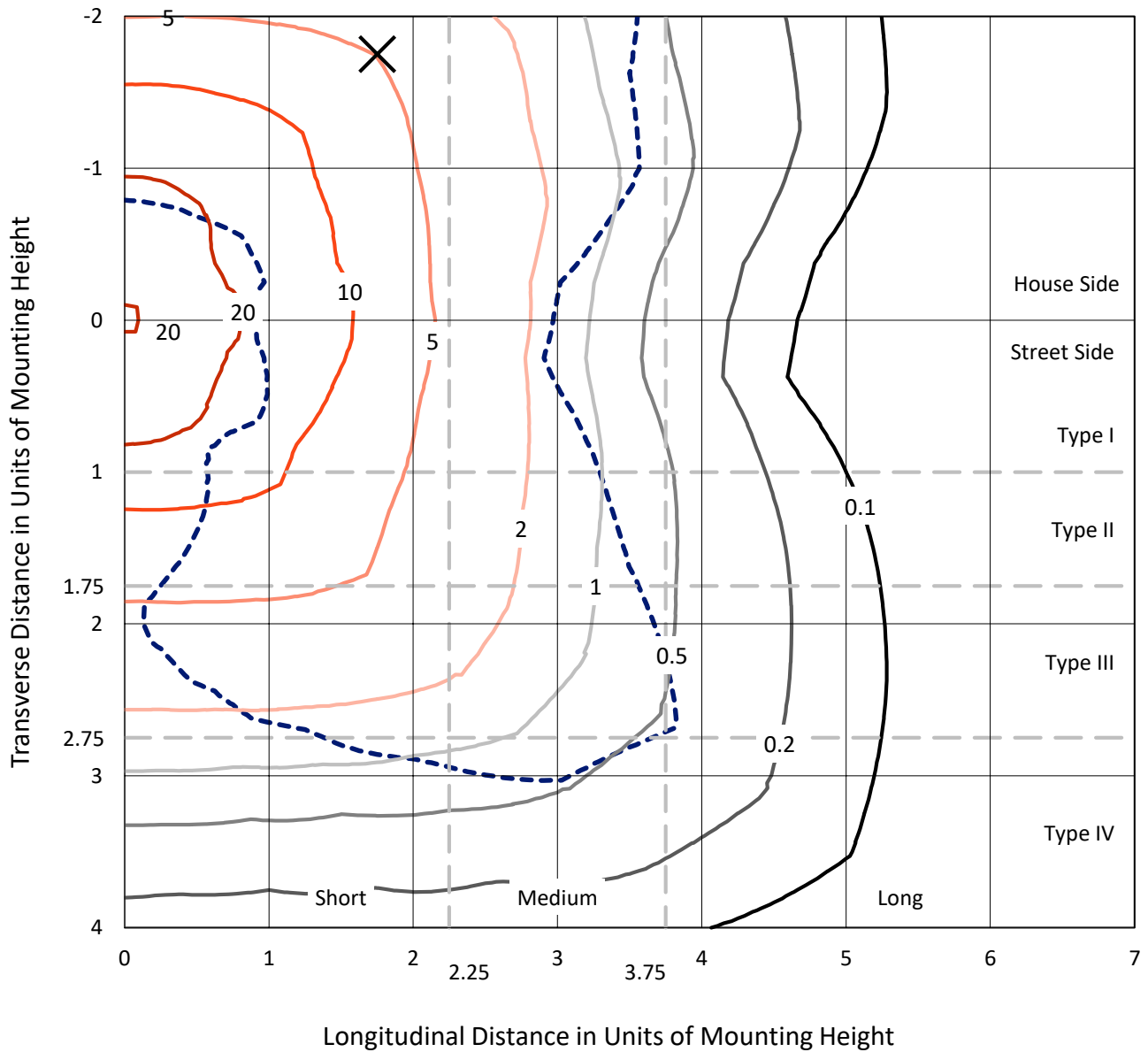
Input Watts (W): 49.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

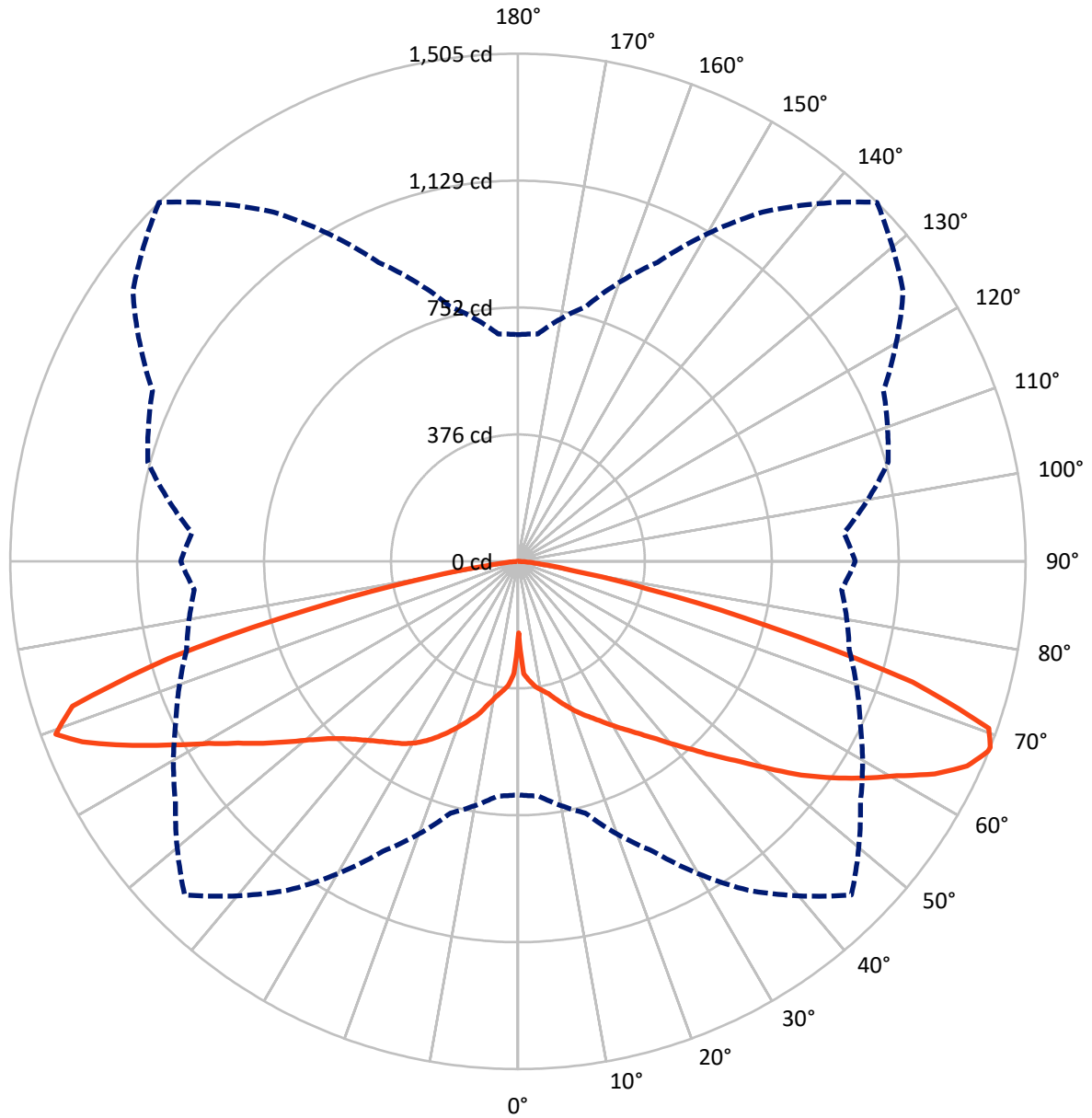
✕ Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 28.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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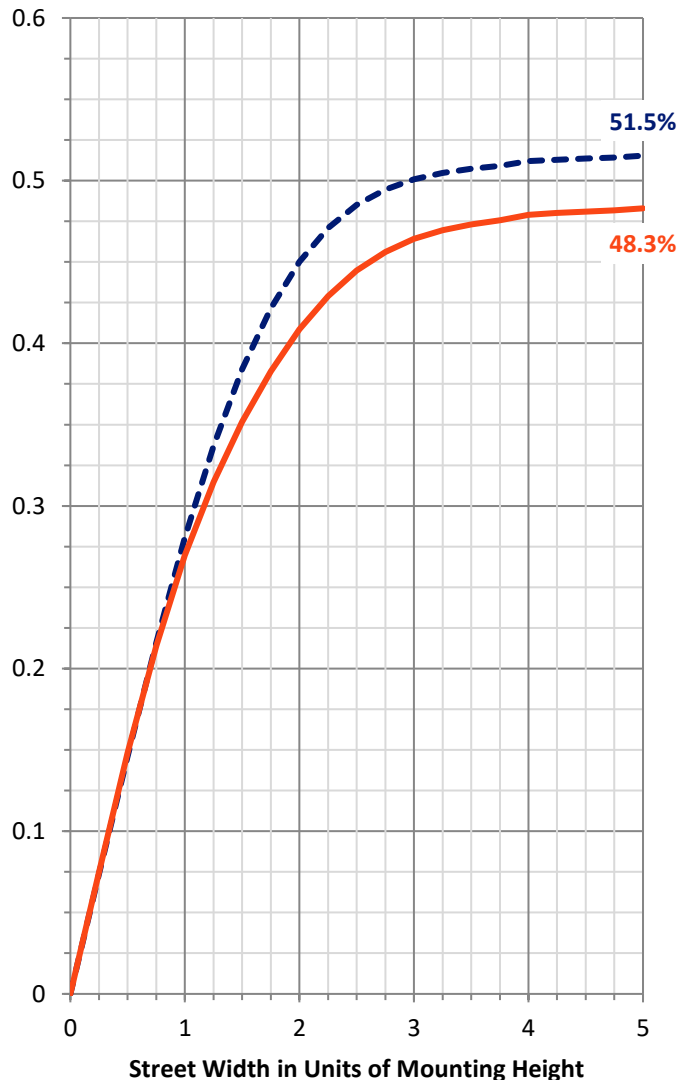
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2052.4	0.0	2052.4
	% Fixture	51.6	0.0	51.6
<b>Street Side</b>	Lumens	1924.7	0.0	1924.7
	% Fixture	48.4	0.0	48.4
<b>Total</b>	Lumens	3977.1	0.0	3977.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.5	0.9
10°-20°	123.0	3.1
20°-30°	245.4	6.2
30°-40°	405.4	10.2
40°-50°	601.8	15.1
50°-60°	844.3	21.2
60°-70°	1053.5	26.5
70°-80°	614.8	15.5
80°-90°	54.4	1.4
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°-90°	3977.1	100.0
0°-180°	3977.1	100.0

**Coefficient of Utilization**



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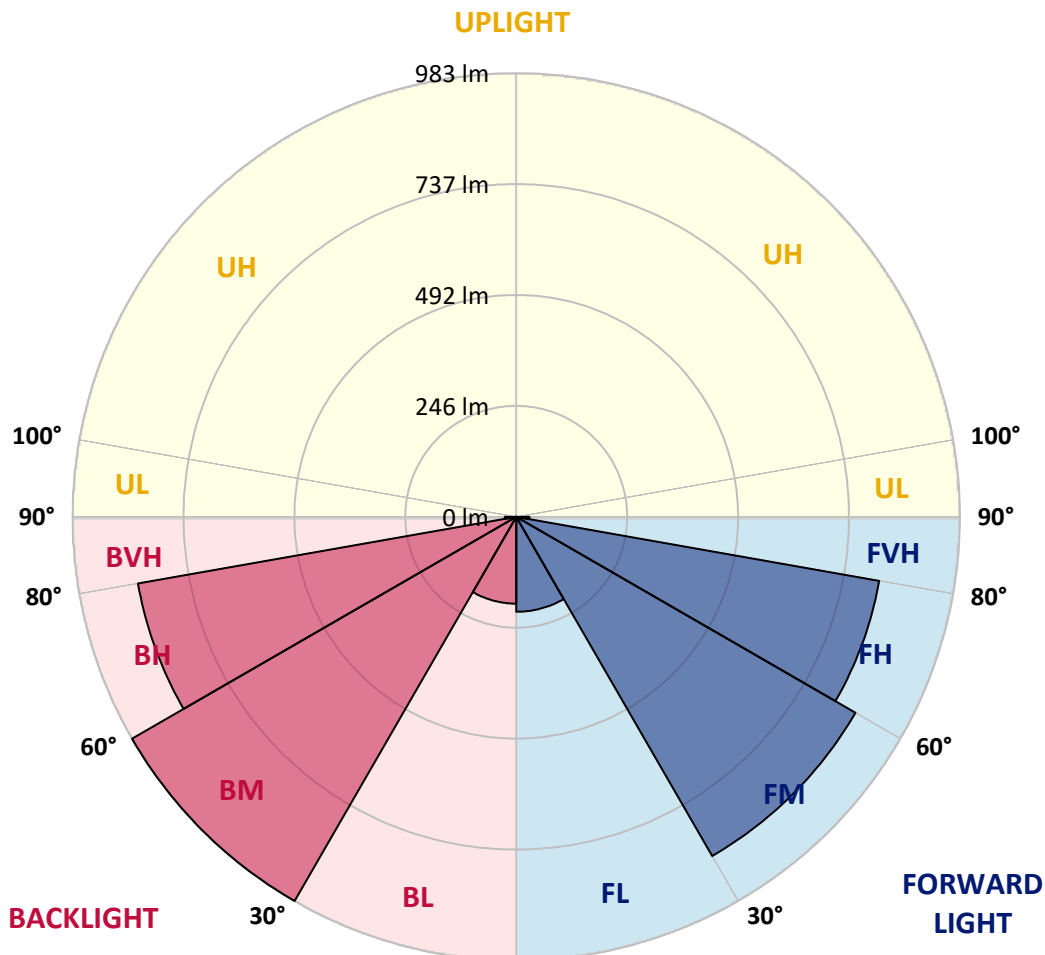
CATALOG NUMBER: BRT6-A4-730-U-T5S-XX-BK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.4	5.3			
FM	(30°-60°)	868.1	21.8			
FH	(60°-80°)	816.9	20.5			G1/1800
FVH	(80°-90°)	29.2	0.7			G1/100
BL	(0°-30°)	192.5	4.8	B1/500		
BM	(30°-60°)	983.3	24.7	B1/1000		
BH	(60°-80°)	851.4	21.4	B2/1000		G1/1800
BVH	(80°-90°)	25.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	212	212	212	212	212	212	212	212	212	212	212
2.5°	301	303	329	334	328	331	325	327	319	325	320
5°	376	354	355	382	373	369	356	364	344	355	352
7.5°	401	382	380	406	404	388	382	377	368	366	365
10°	425	425	411	429	428	409	402	392	384	375	373
12.5°	449	448	445	452	456	435	422	406	402	385	383
15°	477	475	473	476	485	468	442	424	417	396	392
17.5°	509	508	506	507	514	492	463	445	433	408	403
20°	537	535	536	538	546	518	483	469	451	425	416
22.5°	563	563	564	566	577	545	509	495	472	443	432
25°	588	588	592	594	605	571	534	521	496	464	451
27.5°	614	612	613	616	630	596	558	545	520	490	477
30°	636	634	635	638	654	618	581	566	545	526	514
32.5°	655	653	653	657	674	637	601	587	574	572	560
35°	672	669	672	674	690	652	615	606	602	617	607
37.5°	687	684	689	687	703	669	628	625	633	663	655
40°	698	697	707	702	717	688	646	648	667	711	705
42.5°	691	692	710	716	731	710	669	677	705	765	756
45°	679	683	704	724	748	736	700	709	748	819	811
47.5°	657	661	694	724	766	770	731	748	795	873	865
50°	648	652	687	726	787	814	772	794	839	922	917
52.5°	654	662	694	740	816	868	810	840	884	967	965
55°	673	677	715	768	859	928	858	888	928	1008	1009
57.5°	697	700	743	807	910	989	908	943	964	1041	1045
60°	729	732	781	857	970	1063	969	1003	991	1066	1073
62.5°	754	757	812	909	1046	1158	1040	1053	1008	1073	1086
65°	743	746	815	947	1123	1266	1130	1089	1020	1048	1072
67.5°	707	712	782	954	1181	1376	1223	1115	1020	985	1016
68°	692	698	772	948	1190	1398	1240	1119	1017	963	1000
70°	614	618	696	889	1196	1463	1306	1122	981	850	893
72.5°	390	397	453	644	1002	1389	1294	1018	836	621	641
75°	204	201	233	343	630	1076	1106	795	606	350	358
77.5°	107	104	115	162	308	641	807	572	375	177	191
80°	70	68	70	88	126	307	479	351	217	75	76
82.5°	51	46	49	55	67	93	169	144	94	31	34
85°	28	25	24	32	31	34	27	22	18	12	12
87.5°	16	10	8	10	8	8	7	6	7	5	5
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	212	212	212	212	212	212	212	212	212	212
2.5°	322	330	327	326	334	335	335	322	310	319
5°	345	351	351	356	355	359	355	333	340	332
7.5°	367	361	368	366	375	367	363	346	347	357
10°	377	370	378	375	388	382	374	358	357	368
12.5°	389	379	391	387	402	399	389	374	374	384
15°	401	390	406	403	424	421	411	395	400	406
17.5°	412	403	424	422	447	445	436	421	428	430
20°	426	418	444	445	470	471	460	450	455	458
22.5°	444	440	469	466	493	497	488	482	487	491
25°	468	467	493	488	514	526	517	517	524	528
27.5°	503	496	518	512	539	558	551	557	562	567
30°	543	528	543	537	567	591	589	597	605	610
32.5°	588	562	568	562	596	625	628	642	650	653
35°	637	597	596	590	629	665	673	691	696	700
37.5°	685	632	627	623	668	710	716	739	740	741
40°	731	671	666	664	714	753	765	784	784	781
42.5°	776	710	711	710	764	803	813	825	820	819
45°	827	747	762	764	823	855	856	865	863	861
47.5°	881	785	819	820	886	915	904	909	907	903
50°	937	827	875	881	965	974	952	953	950	944
52.5°	985	875	928	944	1052	1047	1006	998	989	979
55°	1030	926	981	1013	1132	1115	1060	1038	1014	1008
57.5°	1061	971	1036	1072	1212	1186	1107	1059	1015	1005
60°	1075	1018	1100	1139	1290	1247	1138	1053	993	980
62.5°	1063	1060	1150	1216	1387	1293	1137	1019	938	924
65°	1033	1099	1185	1301	1463	1303	1095	938	835	819
67.5°	981	1132	1196	1380	1503	1277	1006	807	707	694
68°	970	1136	1196	1394	1505	1264	978	783	677	672
70°	893	1134	1193	1445	1481	1149	829	617	537	518
72.5°	694	1005	1081	1349	1224	802	503	345	305	288
75°	422	737	803	1017	766	432	271	189	170	170
77.5°	231	460	537	683	393	230	151	112	106	113
80°	94	244	319	328	162	114	95	70	69	72
82.5°	36	96	106	84	70	67	60	47	45	53
85°	12	18	22	23	35	37	40	28	27	35
87.5°	6	7	6	7	8	8	8	8	9	17
90°	0	0	0	0	0	0	0	0	0	0



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By E9970913

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1121 Highway 74 South  
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Scaled Data Report



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Scaled Data Report





— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical



--- HS — SS



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Scaled Data Report





(END OF REPORT)