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

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1037363

Luminaire Tested: S123DS-B775DB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/2/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1037363
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-11)
Test Lab:	INNOVATION CENTER
Issue Date:	5/2/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S123DS-B775DB2750-4F0-XX-W2A-F_3000K
Description:	Define 3 Direct Surface with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3186.0 lumens
Efficiency:	N/A
Efficacy:	88.7 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.18 / 1.3
Luminous Opening:	Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	35.9
Input Voltage (V):	
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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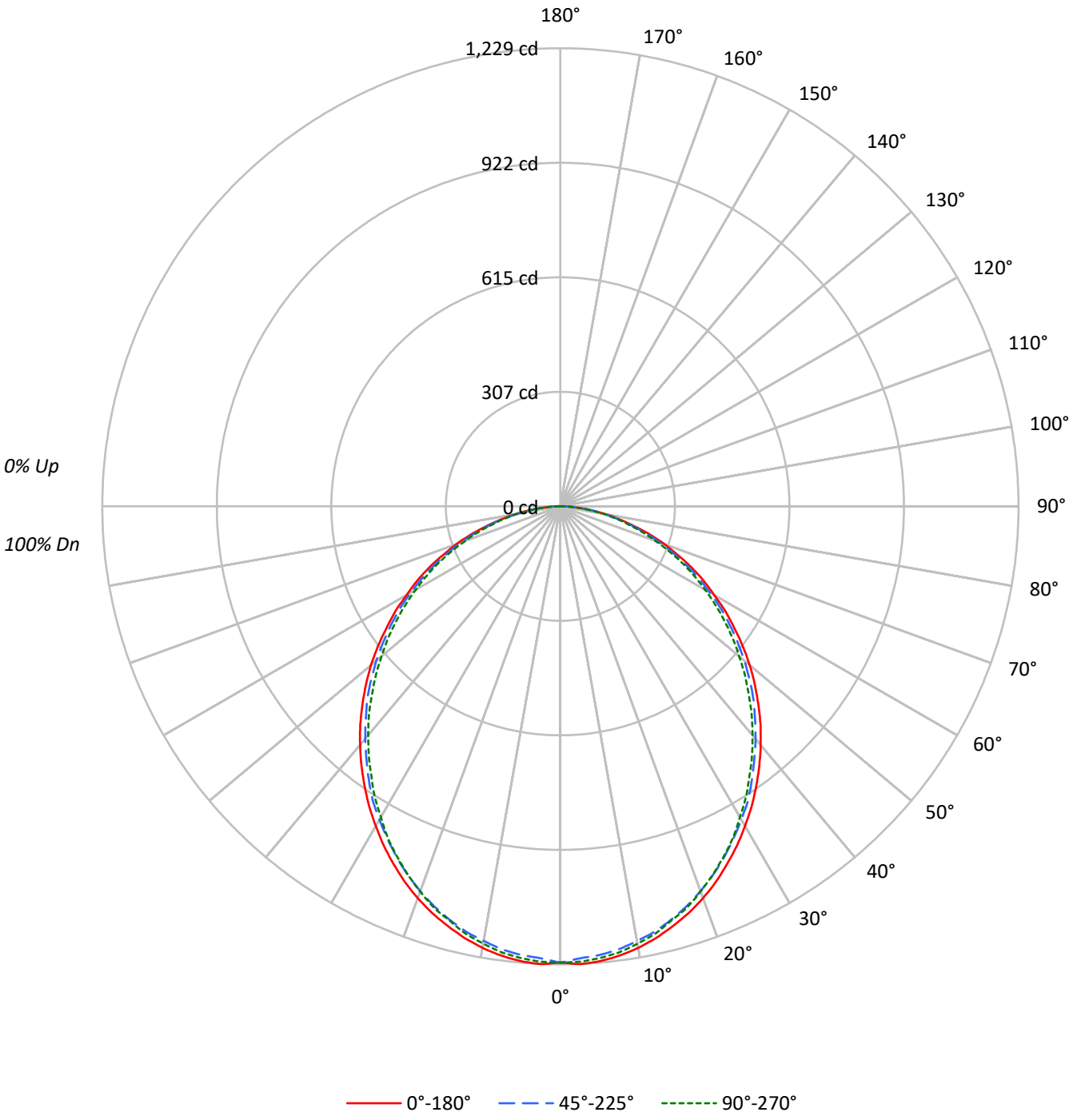
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13177	13177	13177
5°	13238	13057	13148
10°	13150	12943	13023
15°	12997	12797	12821
20°	12817	12588	12600
25°	12576	12339	12314
30°	12311	12062	11970
35°	12034	11771	11619
40°	11744	11448	11271
45°	11424	11152	10880
50°	11104	10788	10488
55°	10687	10410	10094
60°	10264	9970	9653
65°	9892	9490	9195
70°	9341	8944	8548
75°	8538	8230	7881
80°	7699	7370	7308
85°	6756	6496	6237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 11424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.6
10°-20°	325.9	10.2
20°-30°	481.3	15.1
30°-40°	562.1	17.6
40°-50°	565.1	17.7
50°-60°	496.4	15.6
60°-70°	369.7	11.6
70°-80°	210.4	6.6
80°-90°	59.8	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°	922.6	29.0
0°-40°	1484.6	46.6
0°-60°	2546.1	79.9
0°-90°	3186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1225	1220	1208	1219	1217	116
15°	1166	1162	1148	1157	1150	329
25°	1059	1053	1039	1040	1037	488
35°	916	910	896	890	884	573
45°	750	746	733	720	715	579
55°	570	568	555	543	538	510
65°	388	383	373	364	361	383
75°	205	201	198	193	190	219
85°	55	53	53	50	50	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1224.2*	1224.2	1224.2	1224.2	1224.2
2.5°	*1229.4*	*1225.2*	*1213.7*	*1224.2*	*1223.1*
5°	*1225.2*	1220.0	1208.4	1218.9	1216.8
7.5°	*1215.8*	1210.5	1198.9	1208.4	1207.3
10°	*1203.1*	1197.9	1184.2	1193.7	1191.5
12.5°	*1186.3*	1182.1	1169.4	1175.8	1174.7
15°	*1166.3*	1162.1	1148.4	1156.8	1150.5
17.5°	*1144.2*	1138.9	1125.2	1131.6	1129.4
20°	*1118.9*	1112.6	1098.9	1103.1	1100.0
22.5°	*1090.5*	1084.2	1070.5	1073.7	1069.4
25°	*1058.9*	1052.6	1038.9	1040.0	1036.8
27.5°	*1026.3*	1020.0	1005.2	1006.3	1003.1
30°	*990.5*	985.2	970.5	970.5	963.1
32.5°	*954.7*	947.3	936.8	929.5	926.3
35°	*915.8*	909.5	895.8	889.5	884.2
37.5°	*876.8*	868.4	854.7	847.3	844.2
40°	*835.8*	829.5	814.7	806.3	802.1
42.5°	*794.7*	787.3	772.6	764.2	760.0
45°	*750.5*	746.3	732.6	720.0	714.7
47.5°	*707.4*	701.0	688.4	675.8	671.6
50°	*663.1*	657.9	644.2	632.6	626.3
52.5°	*616.8*	613.7	598.9	589.5	583.1
55°	*569.5*	568.4	554.7	543.1	537.9
57.5°	*525.3*	521.0	510.5	500.0	493.7
60°	*476.8*	475.8	463.1	453.7	448.4
62.5°	*433.7*	430.5	417.9	408.4	405.3
65°	*388.4*	383.1	372.6	364.2	361.0
67.5°	*340.0*	335.8	327.4	320.0	315.8
70°	*296.8*	290.5	284.2	276.8	271.6
72.5°	*251.6*	247.4	240.0	233.7	231.6
75°	*205.3*	201.0	197.9	192.6	189.5
77.5°	*164.2*	162.1	157.9	153.7	153.7
80°	*124.2*	121.0	118.9	117.9	117.9
82.5°	*85.3*	85.3	85.3	83.2	82.1
85°	*54.7*	52.6	52.6	50.5	50.5
87.5°	*27.4*	24.2	23.2	22.1	22.1
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)