

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: P1009356

Luminaire Tested: S122DIP-B675D725UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009356
REPORT IS A COMBINATION OF REPORTS P984627 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D725UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

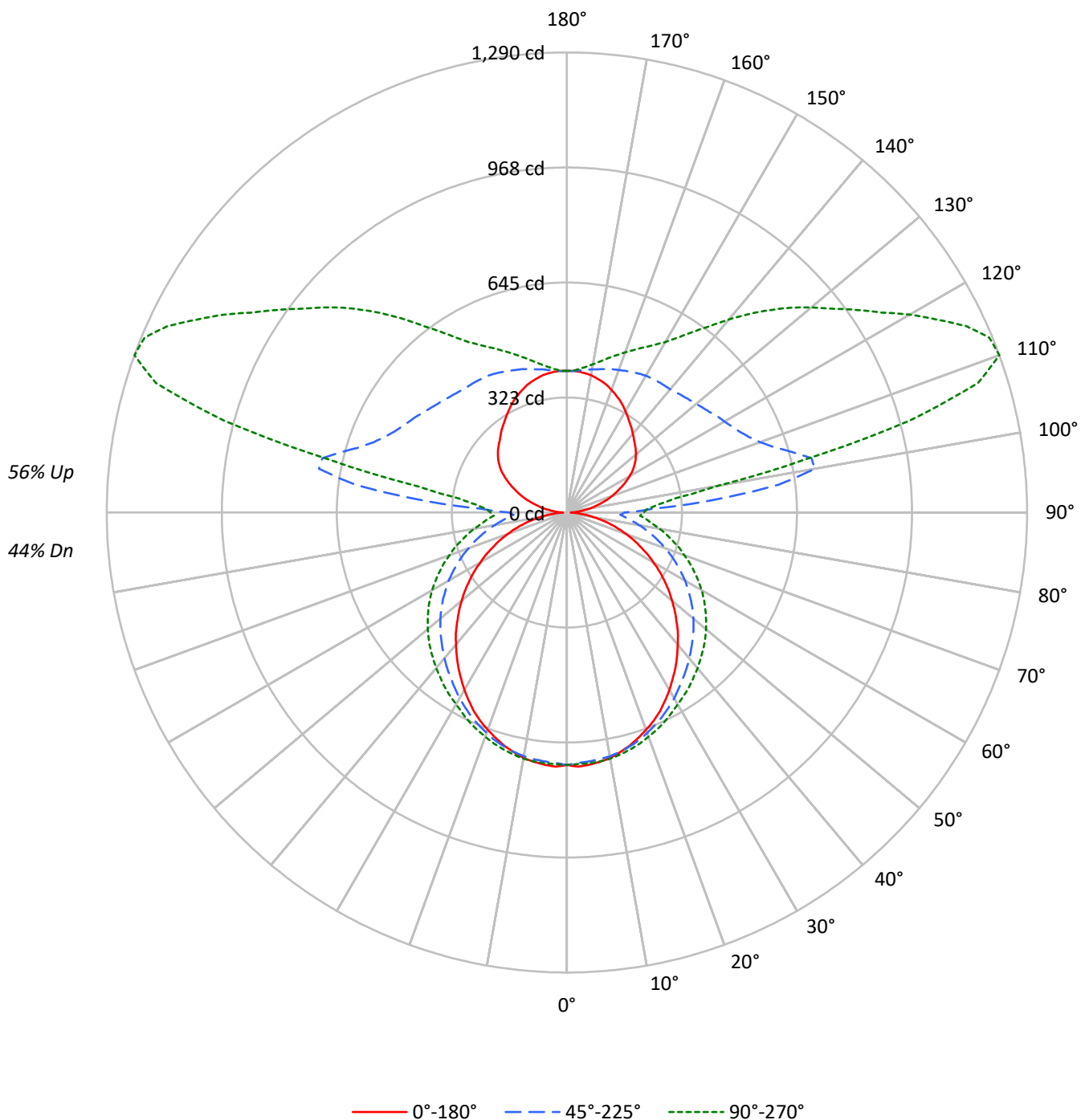
Lumens per Lamp: N/A
Luminaire Lumens: 5472.2 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	95	90	86	82	87	83	79	75	68	65	63	55	53	51	43	41	40
2	86	78	71	66	78	71	66	61	59	55	51	47	44	42	37	35	33
3	78	68	60	54	71	62	56	50	51	46	42	41	38	35	32	29	27
4	71	60	52	45	65	55	48	42	45	40	36	37	33	29	28	26	23
5	65	53	45	39	59	49	41	36	40	35	30	33	28	25	25	22	20
6	60	48	39	33	54	44	36	31	36	31	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	27	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	14
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	18	15	12
10	44	32	25	20	41	30	23	19	25	20	16	21	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.2
10°-20°	192.5	3.5
20°-30°	291.7	5.3
30°-40°	355.2	6.5
40°-50°	382.2	7.0
50°-60°	371.2	6.8
60°-70°	324.2	5.9
70°-80°	249.5	4.6
80°-90°	169.6	3.1
90°-100°	276.2	5.0
100°-110°	628.2	11.5
110°-120°	627.4	11.5
120°-130°	501.2	9.2
130°-140°	390.9	7.1
140°-150°	287.7	5.3
150°-160°	200.7	3.7
160°-170°	118.2	2.2
170°-180°	38.4	0.7
0°-30°	551.4	10.1
0°-40°	906.6	16.6
0°-60°	1660.0	30.3
0°-90°	2403.3	43.9
90°-120°	1531.9	28.0
90°-150°	2711.6	49.6
90°-180°	3069.0	56.1
0°-180°	5472.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	80	162	201	214	9
95°	35	122	417	270	256	34
105°	98	175	654	1135	996	105
115°	168	223	535	1069	1236	166
125°	231	273	490	854	990	206
135°	270	322	461	698	802	209
145°	307	353	447	562	619	193
155°	349	377	434	491	511	161
165°	380	392	416	441	448	107
175°	396	397	400	405	404	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.1	80.1	161.5	201.3	214.0
92.5°	20.7	99.9	243.8	220.5	225.2
95°	34.9	122.0	417.2	270.0	256.3
97.5°	46.9	138.0	598.6	375.5	306.9
100°	66.0	151.3	705.7	592.2	425.2
102.5°	82.5	163.7	702.3	895.8	676.5
105°	98.2	175.4	654.0	1135.3	995.8
107.5°	116.6	187.0	608.6	1216.8	1208.3
110°	133.9	199.0	576.4	1194.1	1290.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.7	211.4	552.5	1137.6	1281.4
115°	168.2	222.7	534.9	1069.2	1235.8
117.5°	185.5	235.0	521.6	1004.3	1171.0
120°	202.3	246.9	510.0	944.6	1109.7
122.5°	218.4	260.2	500.9	897.3	1043.9
125°	231.1	273.1	489.9	853.8	990.2
127.5°	242.6	286.2	481.4	814.8	938.4
130°	252.5	298.7	473.8	776.2	894.4
132.5°	261.7	310.9	466.8	736.6	849.8
135°	269.7	321.6	460.9	697.7	802.2
137.5°	278.1	330.8	455.8	658.6	755.0
140°	288.0	338.2	451.0	623.1	706.3
142.5°	298.0	345.0	448.9	589.8	658.6
145°	306.9	352.7	447.3	561.6	619.0
147.5°	317.6	358.8	445.1	536.9	582.0
150°	328.3	364.9	442.8	519.1	551.9
152.5°	338.9	371.0	438.9	505.0	529.8
155°	348.9	376.8	434.4	491.2	510.7
157.5°	357.3	381.3	429.8	478.2	493.9
160°	365.7	385.9	425.2	465.3	477.9
162.5°	374.1	389.4	421.4	453.1	462.6
165°	380.2	391.6	416.0	441.2	448.1
167.5°	385.5	393.9	411.5	430.6	434.4
170°	390.9	395.0	407.6	420.6	422.2
172.5°	393.9	396.2	403.1	411.8	412.2
175°	396.2	396.6	400.0	405.0	403.8
177.5°	397.7	397.0	397.0	400.0	397.7
180°	397.0	397.0	397.0	397.0	397.0

(END OF REPORT)