

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: P1009518

Luminaire Tested: S122DIP-B865D330UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009518
REPORT IS A COMBINATION OF REPORTS P984837 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB50-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

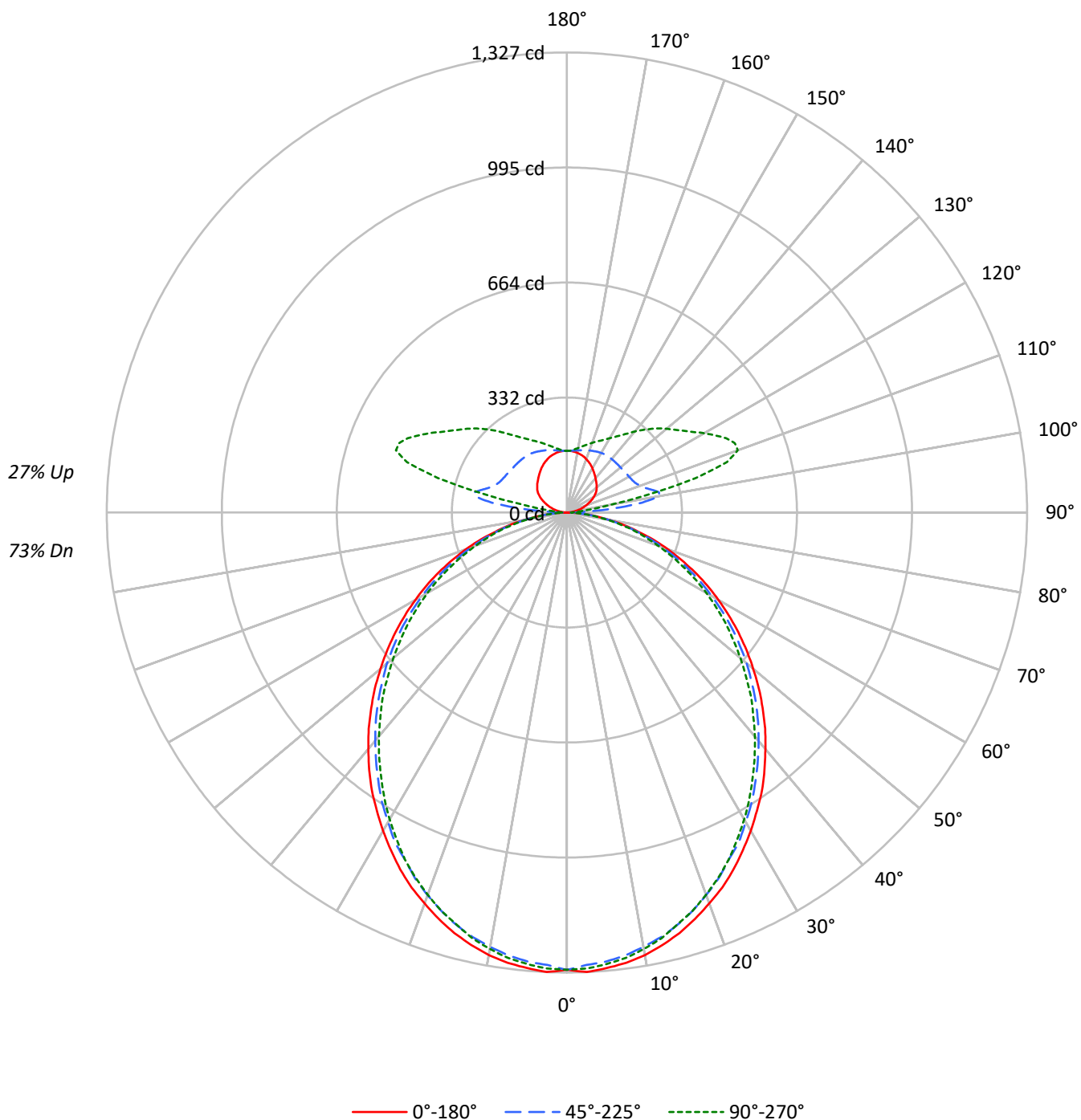
Lumens per Lamp: N/A
Luminaire Lumens: 4596.4 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77
1	103	98	94	91	98	94	90	87	84	82	79	76	74	72	68	67	65
2	94	86	80	74	89	82	76	71	74	70	66	67	63	60	60	57	55
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	48	44	40
5	72	60	52	45	68	57	50	44	52	46	41	47	42	38	43	39	35
6	67	54	46	39	63	52	44	38	47	41	36	43	38	33	39	35	31
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28
8	57	45	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25
9	54	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23
10	50	38	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20880	20880	20880
5°	20914	19903	19762
10°	20745	18996	18619
15°	20441	18082	17417
20°	20030	17088	16278
25°	19621	16049	15141
30°	19106	15074	13949
35°	18619	14045	12776
40°	18021	13030	11670
45°	17424	12022	10584
50°	16773	10997	9456
55°	16086	9900	8388
60°	15318	8714	7279
65°	14472	7509	6113
70°	13404	6188	4936
75°	11921	4770	3811
80°	10123	3241	2453
85°	7345	1509	1044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	2.7
10°-20°	349.3	7.6
20°-30°	513.3	11.2
30°-40°	596.2	13.0
40°-50°	595.5	13.0
50°-60°	519.2	11.3
60°-70°	383.8	8.4
70°-80°	217.2	4.7
80°-90°	58.4	1.3
90°-100°	72.1	1.6
100°-110°	243.6	5.3
110°-120°	256.1	5.6
120°-130°	210.5	4.6
130°-140°	169.2	3.7
140°-150°	127.8	2.8
150°-160°	89.9	2.0
160°-170°	52.9	1.2
170°-180°	17.2	0.4
0°-30°	986.8	21.5
0°-40°	1583.0	34.4
0°-60°	2697.7	58.7
0°-90°	3357.1	73.0
90°-120°	571.7	12.4
90°-150°	1079.3	23.5
90°-180°	1239.0	27.0
0°-180°	4596.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1319	1314	1300	1310	1308	125
15°	1256	1248	1232	1237	1230	354
25°	1136	1126	1105	1107	1105	523
35°	980	968	948	940	934	612
45°	798	789	770	756	751	616
55°	604	596	581	566	559	540
65°	407	400	387	375	369	403
75°	213	210	204	197	199	227
85°	52	51	50	46	44	58
90°	0	5	12	11	11	4
95°	12	29	134	51	39	12
105°	42	63	253	453	385	44
115°	74	93	212	437	507	73
125°	102	121	204	354	411	91
135°	120	144	201	298	341	93
145°	137	158	200	249	272	86
155°	156	169	194	220	229	72
165°	170	175	186	198	201	48
175°	177	178	179	181	181	17
180°	178	178	178	178	178	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1326.7	1320.4	1306.4	1319.1	1316.6
5°	1319.1	1314.0	1300.1	1310.2	1307.7
7.5°	1310.2	1302.6	1288.7	1298.8	1296.3
10°	1296.3	1287.4	1272.2	1282.3	1278.5
12.5°	1277.2	1269.6	1254.4	1260.8	1258.2
15°	1255.7	1248.1	1231.6	1236.7	1230.3
17.5°	1229.0	1221.4	1204.9	1211.3	1204.9
20°	1199.9	1192.3	1174.5	1178.3	1173.2
22.5°	1170.7	1159.3	1142.8	1142.8	1140.3
25°	1136.5	1126.3	1104.7	1107.3	1104.7
27.5°	1098.4	1089.5	1073.0	1069.2	1062.9
30°	1060.4	1050.2	1031.2	1027.4	1022.3
32.5°	1019.8	1012.2	991.9	984.3	979.2
35°	980.4	967.8	947.5	939.9	933.5
37.5°	936.1	924.6	904.3	895.5	889.1
40°	890.4	880.2	860.0	848.5	843.5
42.5°	846.0	835.9	815.6	802.9	795.3
45°	797.8	788.9	769.9	755.9	750.9
47.5°	750.9	742.0	721.7	707.7	700.1
50°	701.4	695.1	677.3	659.5	653.2
52.5°	653.2	644.3	627.8	613.9	605.0
55°	603.7	596.1	580.9	565.7	559.3
57.5°	554.3	547.9	531.4	516.2	511.2
60°	504.8	499.7	482.0	468.0	464.2
62.5°	456.6	447.7	435.0	422.4	417.3
65°	407.1	399.5	386.9	375.4	369.1
67.5°	356.4	350.1	338.7	329.8	324.7
70°	309.5	304.4	293.0	284.1	279.0
72.5°	261.3	256.2	249.9	241.0	237.2
75°	213.1	210.5	204.2	196.6	199.1
77.5°	170.0	164.9	162.4	158.5	154.7
80°	126.8	125.6	123.0	119.2	116.7
82.5°	86.2	86.2	85.0	79.9	79.9
85°	52.0	50.7	49.5	45.7	44.4
87.5°	22.8	20.3	17.8	14.0	12.7
90°	0.3	4.6	11.6	11.1	11.3
92.5°	5.1	16.2	52.6	24.2	20.9
95°	12.0	29.4	134.0	50.6	39.0
97.5°	17.8	38.8	218.4	101.6	65.3
100°	26.3	47.5	270.0	202.2	122.4
102.5°	34.2	55.4	271.8	341.8	238.6
105°	41.7	62.9	253.3	452.8	385.2
107.5°	49.9	70.4	236.2	493.0	484.0
110°	58.1	78.2	224.6	486.4	524.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.6	85.4	217.1	464.4	523.7
115°	73.5	92.8	211.9	437.4	506.9
117.5°	81.7	100.2	209.2	411.6	481.6
120°	89.2	107.3	206.8	388.4	457.4
122.5°	96.4	114.6	205.4	370.5	432.1
125°	102.5	121.4	203.7	354.3	411.2
127.5°	107.7	127.6	202.7	340.4	391.7
130°	112.1	133.3	202.0	326.4	375.7
132.5°	116.2	138.8	201.7	311.9	358.9
135°	120.3	143.6	201.3	297.8	340.8
137.5°	124.1	147.6	201.3	283.4	323.4
140°	128.5	151.4	201.0	270.7	305.3
142.5°	133.0	154.5	201.0	258.6	287.1
145°	137.4	158.0	200.3	248.6	272.1
147.5°	142.2	160.6	199.3	240.0	258.8
150°	147.0	163.4	198.3	232.4	247.1
152.5°	151.8	166.2	196.6	226.2	237.2
155°	156.2	168.7	194.5	220.0	228.7
157.5°	160.0	170.8	192.4	214.2	221.2
160°	163.7	172.8	190.4	208.3	214.0
162.5°	167.5	174.4	188.7	202.8	207.1
165°	170.2	175.4	186.3	197.6	200.7
167.5°	172.6	176.4	184.2	192.8	194.5
170°	175.0	176.9	182.5	188.4	189.0
172.5°	176.4	177.4	180.5	184.4	184.6
175°	177.4	177.6	179.1	181.4	180.8
177.5°	178.1	177.8	177.8	179.1	178.1
180°	177.8	177.8	177.8	177.8	177.8

(END OF REPORT)