

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: P1008637

Luminaire Tested: S122DIP-B1005D530UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008637
REPORT IS A COMBINATION OF REPORTS P983644 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB27-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

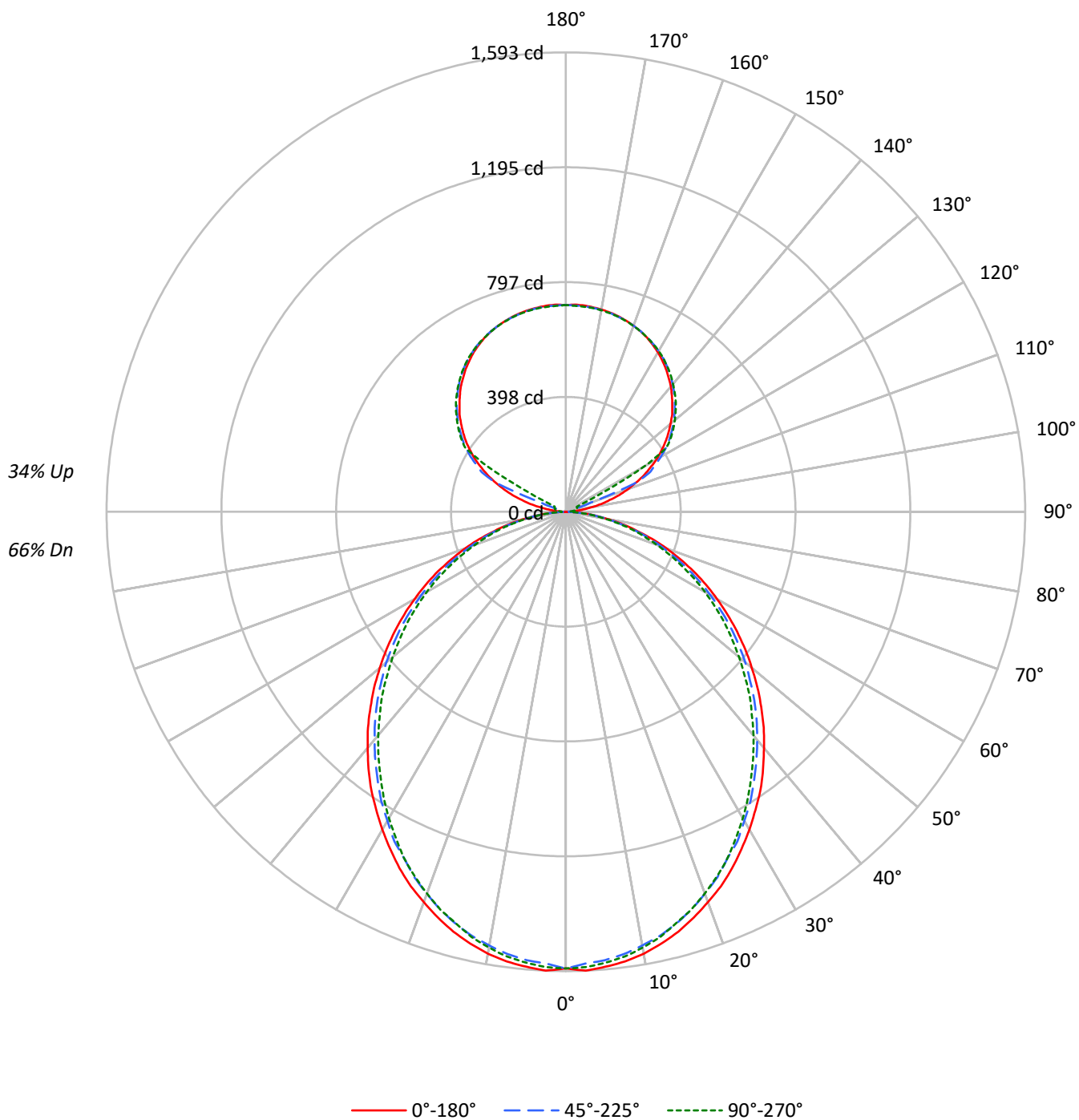
Lumens per Lamp: N/A
Luminaire Lumens: 6131.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66		
1	101	97	93	89	95	91	88	85	81	78	76	71	69	67	62	61	60	55		
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46		
3	84	74	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39		
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34		
5	71	59	51	44	66	56	48	43	50	44	39	44	39	36	39	35	32	29		
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	28	26		
7	61	48	40	34	57	45	38	33	41	35	30	37	32	28	33	28	25	23		
8	56	44	36	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20		
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	18		
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25067	25067	25067
5°	25108	23894	23724
10°	24904	22805	22353
15°	24540	21709	20909
20°	24047	20514	19542
25°	23556	19269	18178
30°	22937	18098	16746
35°	22355	16861	15339
40°	21634	15642	14009
45°	20918	14433	12705
50°	20138	13201	11353
55°	19313	11886	10071
60°	18389	10461	8739
65°	17377	9013	7339
70°	16089	7428	5926
75°	14310	5728	4576
80°	12159	3892	2945
85°	8814	1811	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	2.4
10°-20°	419.4	6.8
20°-30°	616.3	10.1
30°-40°	715.8	11.7
40°-50°	714.9	11.7
50°-60°	623.3	10.2
60°-70°	460.8	7.5
70°-80°	260.7	4.3
80°-90°	70.0	1.1
90°-100°	23.6	0.4
100°-110°	88.1	1.4
110°-120°	233.6	3.8
120°-130°	387.5	6.3
130°-140°	411.6	6.7
140°-150°	382.5	6.2
150°-160°	307.5	5.0
160°-170°	198.2	3.2
170°-180°	68.2	1.1
0°-30°	1184.7	19.3
0°-40°	1900.5	31.0
0°-60°	3238.7	52.8
0°-90°	4030.2	65.7
90°-120°	345.3	5.6
90°-150°	1526.9	24.9
90°-180°	2101.0	34.3
0°-180°	6131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1578	1561	1573	1570	150
15°	1508	1498	1479	1485	1477	425
25°	1364	1352	1326	1329	1326	628
35°	1177	1162	1138	1128	1121	735
45°	958	947	924	908	901	739
55°	725	716	697	679	672	648
65°	489	480	464	451	443	483
75°	256	253	245	236	239	273
85°	62	61	59	55	53	70
90°	0	6	10	13	14	6
95°	34	17	20	23	22	40
105°	158	173	32	37	39	168
115°	298	307	320	80	42	293
125°	422	428	438	442	443	376
135°	522	530	535	540	539	403
145°	605	605	613	617	614	378
155°	666	662	668	671	667	307
165°	702	699	700	704	700	198
175°	718	714	716	719	714	68
180°	717	717	717	717	717	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1592.8	1585.1	1568.4	1583.6	1580.6
5°	1583.6	1577.5	1560.8	1573.0	1569.9
7.5°	1573.0	1563.8	1547.1	1559.3	1556.2
10°	1556.2	1545.6	1527.3	1539.5	1534.9
12.5°	1533.4	1524.2	1506.0	1513.6	1510.5
15°	1507.5	1498.4	1478.6	1484.7	1477.0
17.5°	1475.5	1466.4	1446.6	1454.2	1446.6
20°	1440.5	1431.4	1410.0	1414.6	1408.5
22.5°	1405.5	1391.8	1372.0	1372.0	1368.9
25°	1364.4	1352.2	1326.3	1329.3	1326.3
27.5°	1318.7	1308.0	1288.2	1283.7	1276.0
30°	1273.0	1260.8	1238.0	1233.4	1227.3
32.5°	1224.3	1215.1	1190.8	1181.6	1175.5
35°	1177.1	1161.8	1137.5	1128.3	1120.7
37.5°	1123.8	1110.1	1085.7	1075.0	1067.4
40°	1068.9	1056.8	1032.4	1018.7	1012.6
42.5°	1015.7	1003.5	979.1	963.9	954.7
45°	957.8	947.1	924.3	907.5	901.4
47.5°	901.4	890.8	866.4	849.7	840.5
50°	842.1	834.4	813.1	791.8	784.2
52.5°	784.2	773.5	753.7	737.0	726.3
55°	724.8	715.7	697.4	679.1	671.5
57.5°	665.4	657.8	638.0	619.7	613.7
60°	606.0	600.0	578.6	561.9	557.3
62.5°	548.2	537.5	522.3	507.1	501.0
65°	488.8	479.7	464.4	450.7	443.1
67.5°	427.9	420.3	406.6	395.9	389.8
70°	371.5	365.5	351.7	341.1	335.0
72.5°	313.7	307.6	300.0	289.3	284.7
75°	255.8	252.8	245.2	236.0	239.1
77.5°	204.0	198.0	194.9	190.3	185.8
80°	152.3	150.7	147.7	143.1	140.1
82.5°	103.5	103.5	102.0	95.9	95.9
85°	62.4	60.9	59.4	54.8	53.3
87.5°	27.4	24.4	21.3	16.7	15.2
90°	0.5	6.2	10.4	13.0	14.0
92.5°	13.0	10.9	12.4	13.5	14.0
95°	33.7	16.6	20.2	22.8	22.3
97.5°	60.7	18.1	26.4	28.0	28.5
100°	91.8	20.7	29.6	33.7	34.7
102.5°	126.0	125.0	30.6	36.3	37.9
105°	157.6	173.2	31.6	37.3	39.4
107.5°	194.4	207.4	32.7	38.4	40.4
110°	229.7	240.6	90.7	38.9	41.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	262.9	272.2	263.4	39.9	41.5
115°	298.1	307.0	319.9	79.8	42.5
117.5°	328.7	339.1	347.9	273.8	137.9
120°	363.0	370.7	380.1	386.3	316.3
122.5°	392.0	400.3	410.7	413.8	414.3
125°	421.5	428.3	438.1	441.8	443.3
127.5°	448.5	455.8	463.5	468.7	469.2
130°	473.9	482.2	487.9	493.6	493.1
132.5°	499.8	506.6	512.3	516.9	516.4
135°	521.6	529.9	534.6	539.8	538.7
137.5°	544.4	550.7	555.8	561.0	559.5
140°	566.7	570.9	576.6	581.2	578.7
142.5°	585.4	589.0	595.8	599.9	597.3
145°	605.1	604.6	613.4	617.0	614.4
147.5°	622.2	620.6	629.5	632.1	630.0
150°	638.8	635.2	643.5	646.6	644.0
152.5°	652.8	648.6	656.4	659.5	655.9
155°	666.3	661.6	667.8	670.9	666.8
157.5°	677.2	673.0	677.7	681.3	677.2
160°	686.5	683.4	686.5	689.6	686.0
162.5°	694.8	691.7	694.3	697.9	693.2
165°	702.1	698.9	700.5	704.1	700.5
167.5°	707.8	704.6	706.2	709.8	705.2
170°	712.4	709.3	710.4	714.0	709.3
172.5°	715.5	712.4	713.5	717.1	712.4
175°	718.1	714.5	715.5	719.2	714.0
177.5°	719.2	715.5	716.1	719.7	715.0
180°	716.6	716.6	716.6	716.6	716.6

(END OF REPORT)