

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: P1008960

Luminaire Tested: S122DIP-B290D925UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008960
REPORT IS A COMBINATION OF REPORTS P984090 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB30-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

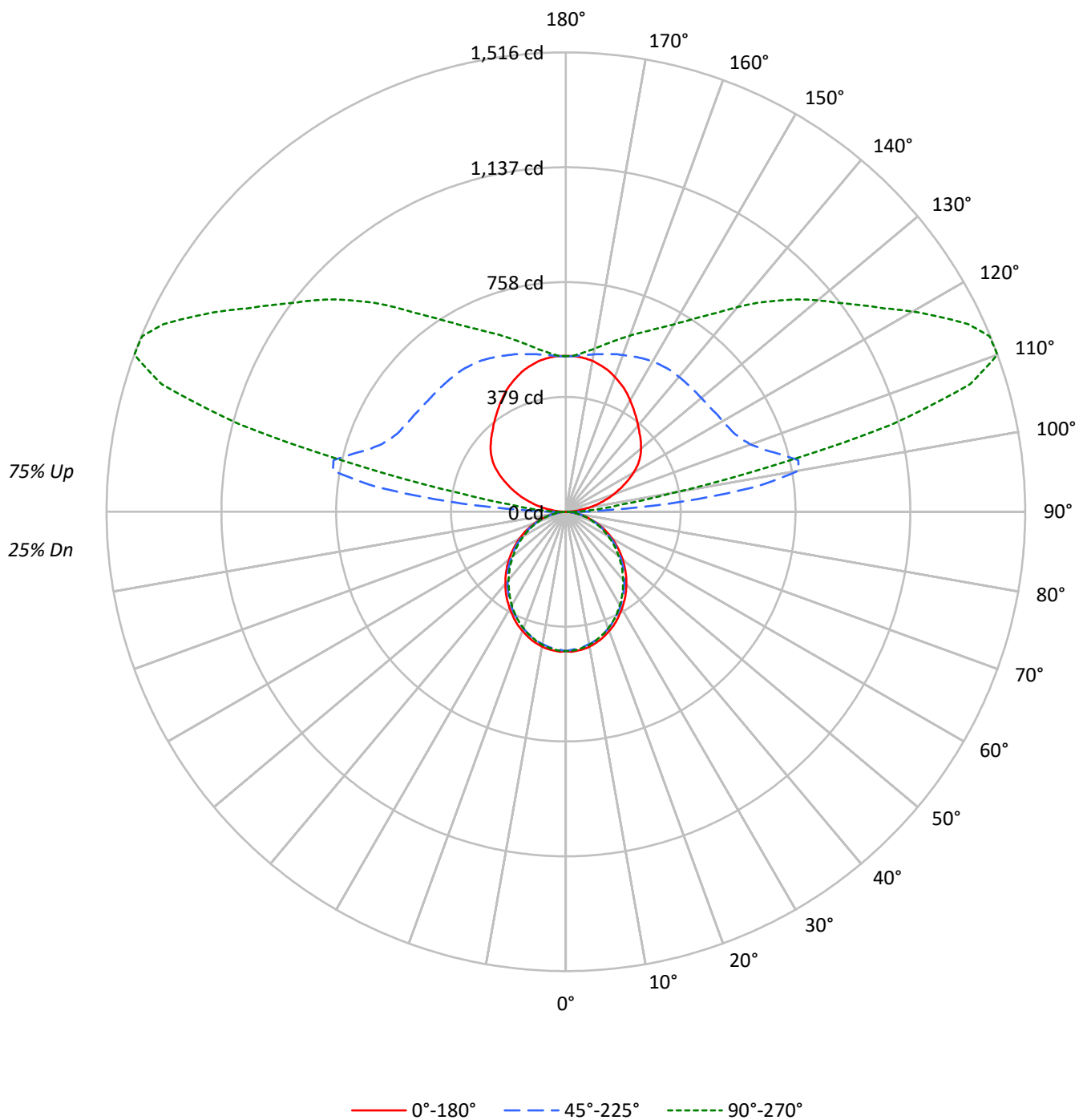
Lumens per Lamp: N/A
Luminaire Lumens: 4755.1 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33
1	92	88	84	81	82	78	75	72	61	58	57	44	43	42	29	28	28
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	42	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7280	7280	7280
5°	7292	6938	6890
10°	7232	6622	6491
15°	7127	6304	6072
20°	6983	5958	5675
25°	6840	5595	5278
30°	6661	5255	4863
35°	6491	4896	4455
40°	6282	4542	4069
45°	6074	4191	3690
50°	5847	3833	3296
55°	5609	3451	2925
60°	5341	3037	2537
65°	5044	2618	2132
70°	4673	2156	1721
75°	4156	1663	1328
80°	3529	1131	856
85°	2557	524	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	0.9
10°-20°	121.8	2.6
20°-30°	179.0	3.8
30°-40°	207.9	4.4
40°-50°	207.6	4.4
50°-60°	181.0	3.8
60°-70°	133.8	2.8
70°-80°	75.7	1.6
80°-90°	23.3	0.5
90°-100°	208.3	4.4
100°-110°	704.1	14.8
110°-120°	740.1	15.6
120°-130°	608.6	12.8
130°-140°	489.0	10.3
140°-150°	369.4	7.8
150°-160°	259.7	5.5
160°-170°	152.9	3.2
170°-180°	49.7	1.0
0°-30°	344.0	7.2
0°-40°	551.9	11.6
0°-60°	940.5	19.8
0°-90°	1173.3	24.7
90°-120°	1652.4	34.8
90°-150°	3119.5	65.6
90°-180°	3582.0	75.3
0°-180°	4755.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	460	458	453	457	456	44
15°	438	435	429	431	429	123
25°	396	393	385	386	385	182
35°	342	337	330	328	326	213
45°	278	275	268	264	262	215
55°	210	208	202	197	195	188
65°	142	139	135	131	129	140
75°	74	73	71	68	69	79
85°	18	18	17	16	16	20
90°	1	13	34	32	33	3
95°	35	85	387	146	113	36
105°	120	182	732	1309	1113	128
115°	212	268	612	1264	1465	211
125°	296	351	589	1024	1188	263
135°	348	415	582	861	985	269
145°	397	456	579	719	786	249
155°	452	488	562	636	661	208
165°	492	507	538	571	580	139
175°	513	513	518	524	523	49
180°	514	514	514	514	514	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.9	459.9	459.9	459.9	459.9
2.5°	462.5	460.3	455.5	459.9	459.0
5°	459.9	458.1	453.2	456.8	455.9
7.5°	456.8	454.1	449.3	452.8	451.9
10°	451.9	448.8	443.5	447.1	445.7
12.5°	445.3	442.6	437.3	439.5	438.7
15°	437.8	435.1	429.4	431.1	428.9
17.5°	428.5	425.8	420.1	422.3	420.1
20°	418.3	415.7	409.5	410.8	409.0
22.5°	408.1	404.2	398.4	398.4	397.5
25°	396.2	392.7	385.1	386.0	385.1
27.5°	382.9	379.8	374.1	372.8	370.6
30°	369.7	366.1	359.5	358.2	356.4
32.5°	355.5	352.9	345.8	343.1	341.4
35°	341.8	337.4	330.3	327.7	325.5
37.5°	326.3	322.4	315.3	312.2	310.0
40°	310.4	306.9	299.8	295.8	294.1
42.5°	294.9	291.4	284.3	279.9	277.3
45°	278.1	275.0	268.4	263.5	261.8
47.5°	261.8	258.7	251.6	246.7	244.1
50°	244.5	242.3	236.1	229.9	227.7
52.5°	227.7	224.6	218.9	214.0	210.9
55°	210.5	207.8	202.5	197.2	195.0
57.5°	193.2	191.0	185.3	180.0	178.2
60°	176.0	174.2	168.0	163.2	161.8
62.5°	159.2	156.1	151.7	147.2	145.5
65°	141.9	139.3	134.9	130.9	128.7
67.5°	124.3	122.0	118.1	115.0	113.2
70°	107.9	106.1	102.1	99.1	97.3
72.5°	91.1	89.3	87.1	84.0	82.7
75°	74.3	73.4	71.2	68.5	69.4
77.5°	59.3	57.5	56.6	55.3	53.9
80°	44.2	43.8	42.9	41.6	40.7
82.5°	30.1	30.1	29.6	27.9	27.9
85°	18.1	17.7	17.2	15.9	15.5
87.5°	8.0	7.1	6.2	4.9	4.4
90°	1.0	13.4	33.6	32.1	32.6
92.5°	14.8	47.0	152.1	70.2	60.3
95°	34.6	84.9	387.3	146.2	112.6
97.5°	51.4	112.2	631.3	293.5	188.7
100°	76.1	137.4	780.5	584.4	353.7
102.5°	98.8	160.0	785.4	988.0	689.6
105°	120.5	181.8	732.1	1308.6	1113.4
107.5°	144.2	203.6	682.7	1424.6	1399.0
110°	168.0	225.8	649.1	1405.9	1515.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.7	247.0	627.4	1342.2	1513.6
115°	212.4	268.2	612.5	1264.1	1465.1
117.5°	236.1	289.5	604.6	1189.5	1392.0
120°	257.9	310.2	597.7	1122.8	1321.9
122.5°	278.6	331.5	593.8	1071.0	1248.8
125°	296.4	350.8	588.8	1024.0	1188.5
127.5°	311.2	369.0	585.9	984.0	1132.2
130°	324.1	385.3	583.9	943.5	1085.8
132.5°	335.9	401.1	582.9	901.5	1037.4
135°	347.8	415.0	581.9	860.6	985.0
137.5°	358.6	426.8	581.9	819.0	934.6
140°	371.5	437.6	580.9	782.4	882.2
142.5°	384.3	446.6	580.9	747.4	829.9
145°	397.2	456.4	578.9	718.8	786.4
147.5°	411.0	464.4	576.0	693.6	747.9
150°	424.8	472.2	573.0	671.8	714.3
152.5°	438.7	480.2	568.1	653.5	685.6
155°	451.5	487.6	562.2	635.8	660.9
157.5°	462.4	493.5	556.2	619.0	639.2
160°	473.2	499.4	550.3	602.2	618.5
162.5°	484.1	503.8	545.4	586.3	598.7
165°	492.0	506.8	538.4	571.0	579.9
167.5°	498.9	509.8	532.5	557.2	562.2
170°	505.8	511.3	527.6	544.4	546.3
172.5°	509.8	512.8	521.6	533.0	533.5
175°	512.8	513.2	517.7	524.1	522.6
177.5°	514.7	513.7	513.7	517.7	514.7
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)