

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: P1008915

Luminaire Tested: S122DIP-B290D725UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008915
REPORT IS A COMBINATION OF REPORTS P984030 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB30-4F0-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

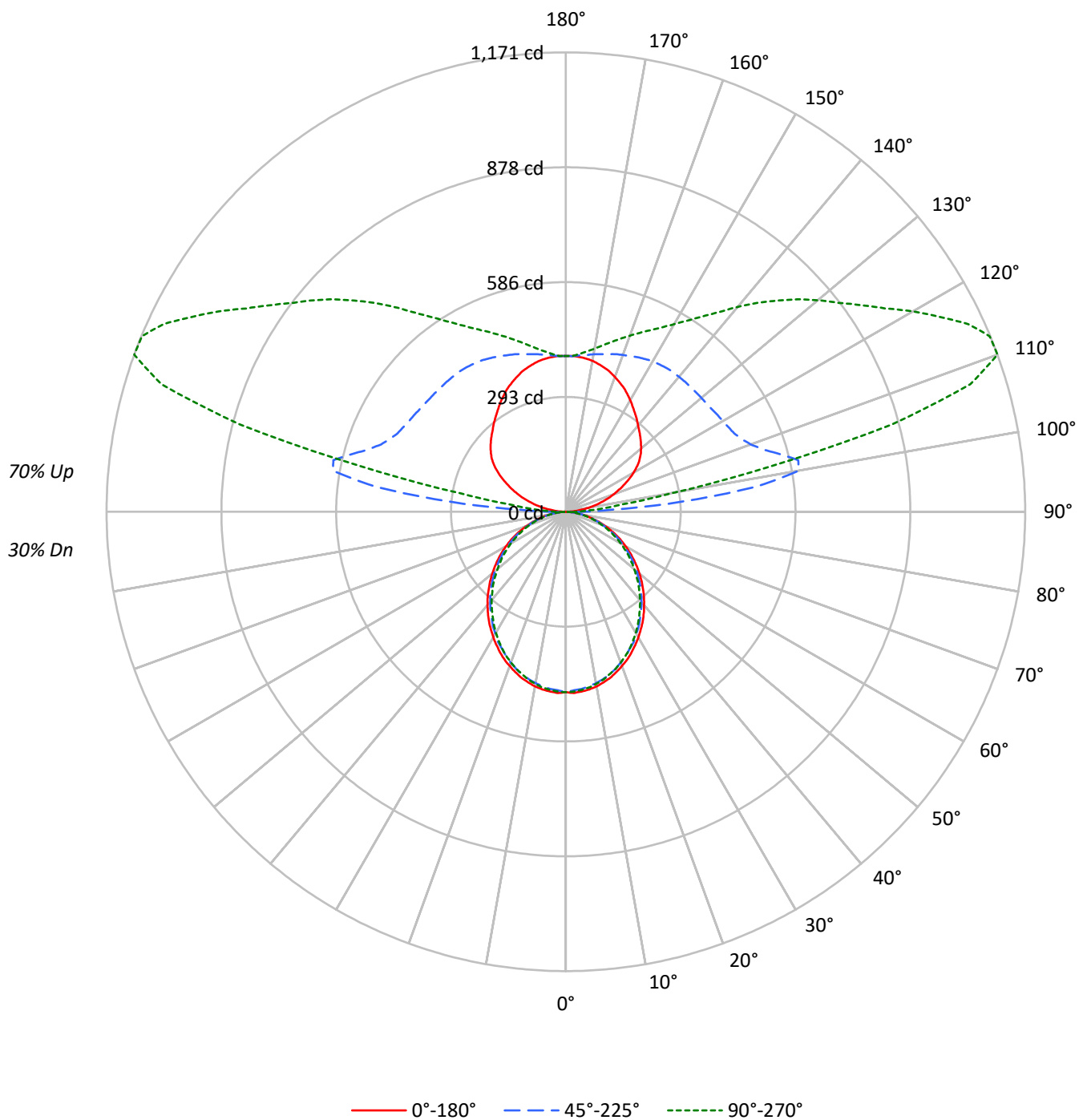
Lumens per Lamp: N/A
Luminaire Lumens: 3940.2 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	32
2	85	78	72	67	76	70	65	61	55	52	49	42	39	37	29	28	27
3	77	68	61	56	69	61	55	51	49	44	41	37	34	32	26	24	23
4	71	60	53	47	63	54	48	43	43	38	35	33	30	27	23	21	19
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	21	19	17
6	60	48	40	34	53	43	37	32	35	30	26	26	23	20	19	17	15
7	55	43	35	30	49	39	32	28	31	26	23	24	21	18	17	15	13
8	51	39	32	26	46	35	29	24	28	24	20	22	18	16	16	13	12
9	47	36	28	23	42	32	26	22	26	21	18	20	17	14	14	12	11
10	44	32	25	21	40	29	23	19	24	19	16	18	15	13	13	11	10

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	1.1
10°-20°	121.8	3.1
20°-30°	179.0	4.5
30°-40°	207.9	5.3
40°-50°	207.6	5.3
50°-60°	181.0	4.6
60°-70°	133.8	3.4
70°-80°	75.7	1.9
80°-90°	22.5	0.6
90°-100°	160.9	4.1
100°-110°	544.0	13.8
110°-120°	571.8	14.5
120°-130°	470.2	11.9
130°-140°	377.9	9.6
140°-150°	285.5	7.2
150°-160°	200.7	5.1
160°-170°	118.2	3.0
170°-180°	38.4	1.0
0°-30°	344.0	8.7
0°-40°	551.9	14.0
0°-60°	940.5	23.9
0°-90°	1172.5	29.8
90°-120°	1276.8	32.4
90°-150°	2410.4	61.2
90°-180°	2768.0	70.3
0°-180°	3940.2	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	10	26	25	25	3
95°	27	66	299	113	87	28
105°	93	140	566	1011	860	99
115°	164	207	473	977	1132	163
125°	229	271	455	791	918	204
135°	269	321	450	665	761	208
145°	307	353	447	555	608	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°	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°	0.8	10.4	26.0	24.8	25.2
92.5°	11.5	36.3	117.6	54.2	46.6
95°	26.7	65.6	299.2	113.0	87.0
97.5°	39.7	86.6	487.8	226.7	145.8
100°	58.8	106.1	603.1	451.6	273.3
102.5°	76.3	123.7	606.9	763.4	532.8
105°	93.1	140.5	565.7	1011.1	860.3
107.5°	111.5	157.2	527.5	1100.8	1081.0
110°	129.8	174.4	501.5	1086.3	1171.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.6	190.9	484.8	1037.0	1169.5
115°	164.1	207.3	473.3	976.8	1132.1
117.5°	182.4	223.7	467.2	919.1	1075.6
120°	199.2	239.7	461.8	867.6	1021.4
122.5°	215.3	256.1	458.8	827.5	964.9
125°	229.0	271.0	455.0	791.2	918.4
127.5°	240.5	285.2	452.7	760.4	874.8
130°	250.4	297.7	451.2	729.0	839.0
132.5°	259.6	309.9	450.4	696.6	801.6
135°	268.7	320.6	449.6	664.9	761.1
137.5°	277.1	329.8	449.6	632.8	722.2
140°	287.0	338.2	448.9	604.6	681.7
142.5°	297.0	345.0	448.9	577.5	641.2
145°	306.9	352.7	447.3	555.3	607.7
147.5°	317.6	358.8	445.1	535.9	577.9
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)