

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: P1011909

Luminaire Tested: S123DIP-B775D1025UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011909
REPORT IS A COMBINATION OF REPORTS P990248 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB30-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

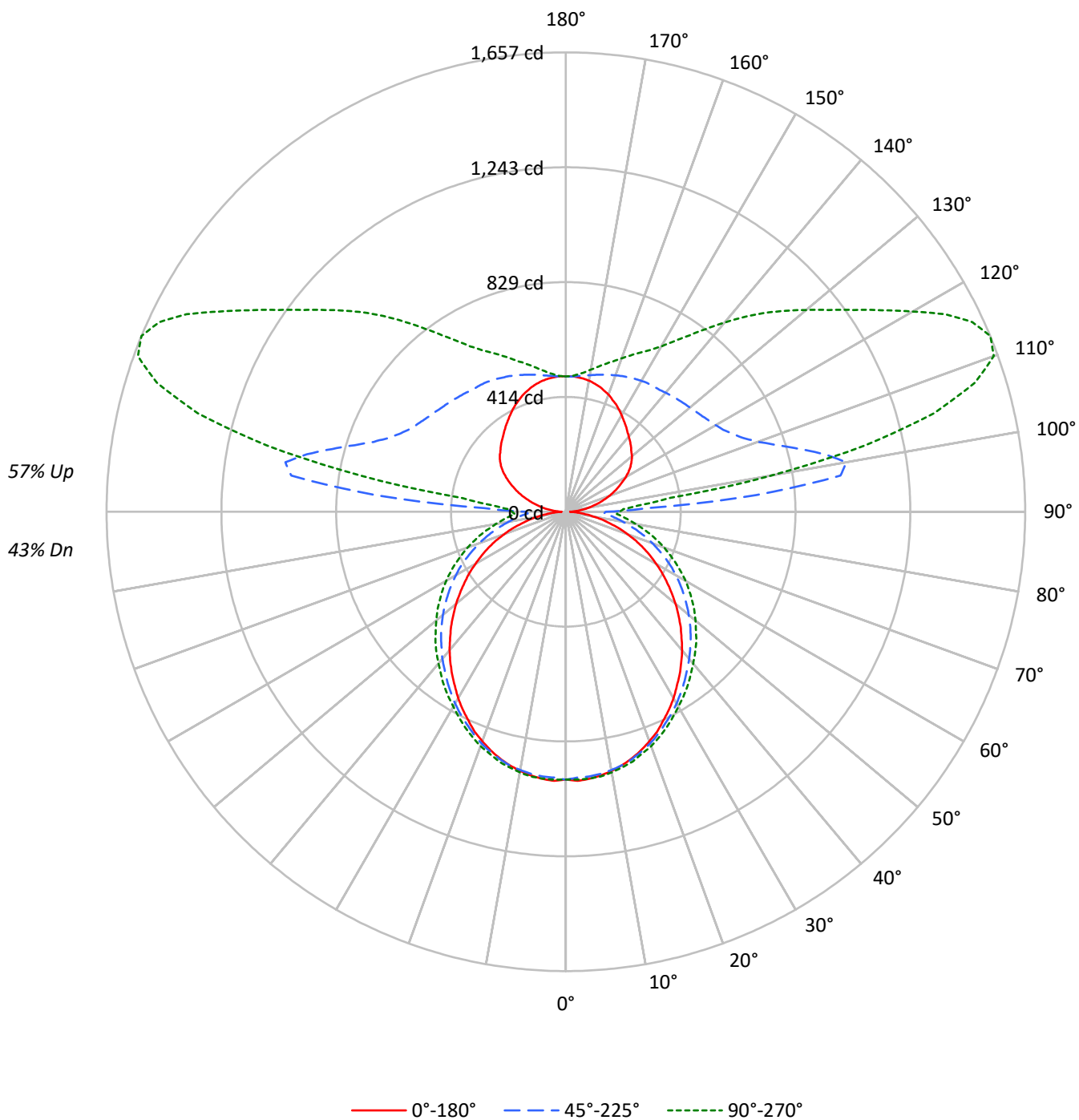
Lumens per Lamp: N/A
Luminaire Lumens: 6930.6 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50
1	95	91	86	83	87	83	79	76	68	66	63	55	53	51	42	41	40
2	86	79	72	67	79	72	66	62	59	55	52	48	45	42	37	35	33
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	32	30	28
4	72	61	53	46	65	56	48	43	46	41	36	37	33	30	29	26	24
5	66	54	46	39	60	49	42	37	41	35	31	33	29	26	26	23	20
6	60	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	31	26	47	36	29	24	30	25	21	25	21	17	19	16	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.3
10°-20°	261.3	3.8
20°-30°	390.7	5.6
30°-40°	466.5	6.7
40°-50°	488.1	7.0
50°-60°	458.0	6.6
60°-70°	382.6	5.5
70°-80°	273.6	3.9
80°-90°	165.5	2.4
90°-100°	379.7	5.5
100°-110°	850.6	12.3
110°-120°	806.3	11.6
120°-130°	630.7	9.1
130°-140°	488.1	7.0
140°-150°	357.3	5.2
150°-160°	247.4	3.6
160°-170°	145.3	2.1
170°-180°	47.3	0.7
0°-30°	743.6	10.7
0°-40°	1210.1	17.5
0°-60°	2156.2	31.1
0°-90°	2977.9	43.0
90°-120°	2036.7	29.4
90°-150°	3512.7	50.7
90°-180°	3953.0	57.0
0°-180°	6930.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	16	77	144	182	194	12
95°	45	162	690	308	262	45
105°	123	203	874	1498	1375	130
115°	208	270	664	1414	1618	206
125°	285	336	601	1084	1269	253
135°	332	395	572	878	1014	257
145°	378	431	552	703	776	236
155°	428	462	535	608	634	197
165°	467	481	512	543	552	132
175°	487	488	491	498	497	46
180°	488	488	488	488	488	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	15.7	77.2	143.6	182.4	193.9
92.5°	27.4	117.2	294.3	208.0	207.1
95°	45.2	161.8	690.2	307.8	261.9
97.5°	63.9	173.5	999.2	559.4	375.2
100°	82.6	181.0	1027.5	1021.4	752.2
102.5°	102.3	190.6	956.8	1318.9	1106.5
105°	123.0	203.2	873.5	1497.8	1375.0
107.5°	143.8	218.8	799.0	1572.1	1547.4
110°	166.4	234.8	737.4	1568.2	1642.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.1	251.8	693.5	1505.1	1657.3
115°	207.9	270.4	663.6	1413.6	1618.3
117.5°	228.6	287.0	640.5	1316.4	1542.8
120°	249.3	303.5	624.3	1224.2	1444.5
122.5°	268.1	320.0	612.1	1150.1	1353.3
125°	284.9	335.7	601.0	1083.6	1268.8
127.5°	298.7	352.5	592.7	1027.8	1195.3
130°	311.5	368.2	584.5	976.1	1132.6
132.5°	320.3	382.6	578.2	927.2	1073.0
135°	332.2	395.0	572.0	878.0	1014.2
137.5°	343.1	405.8	565.8	830.2	953.5
140°	352.9	415.6	560.6	784.4	891.0
142.5°	364.8	423.4	554.4	741.1	831.3
145°	377.6	431.4	552.4	702.6	776.5
147.5°	389.4	439.8	549.5	671.8	729.8
150°	402.2	446.7	545.5	645.8	688.9
152.5°	415.1	454.1	540.6	626.1	657.2
155°	427.9	461.5	534.6	607.8	633.5
157.5°	437.8	468.0	529.7	590.0	610.7
160°	449.7	473.4	523.8	573.7	589.0
162.5°	458.6	477.4	517.8	558.3	569.2
165°	467.4	480.8	511.9	543.0	552.4
167.5°	474.4	483.8	506.0	529.7	535.6
170°	480.3	485.2	500.1	517.8	520.8
172.5°	484.2	486.7	495.1	507.5	507.0
175°	487.2	487.7	491.2	498.1	497.1
177.5°	489.2	488.2	488.2	492.2	490.2
180°	488.2	488.2	488.2	488.2	488.2

(END OF REPORT)