

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: P1011926

Luminaire Tested: S123DIP-B775D1025UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011926
REPORT IS A COMBINATION OF REPORTS P990265 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB40-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

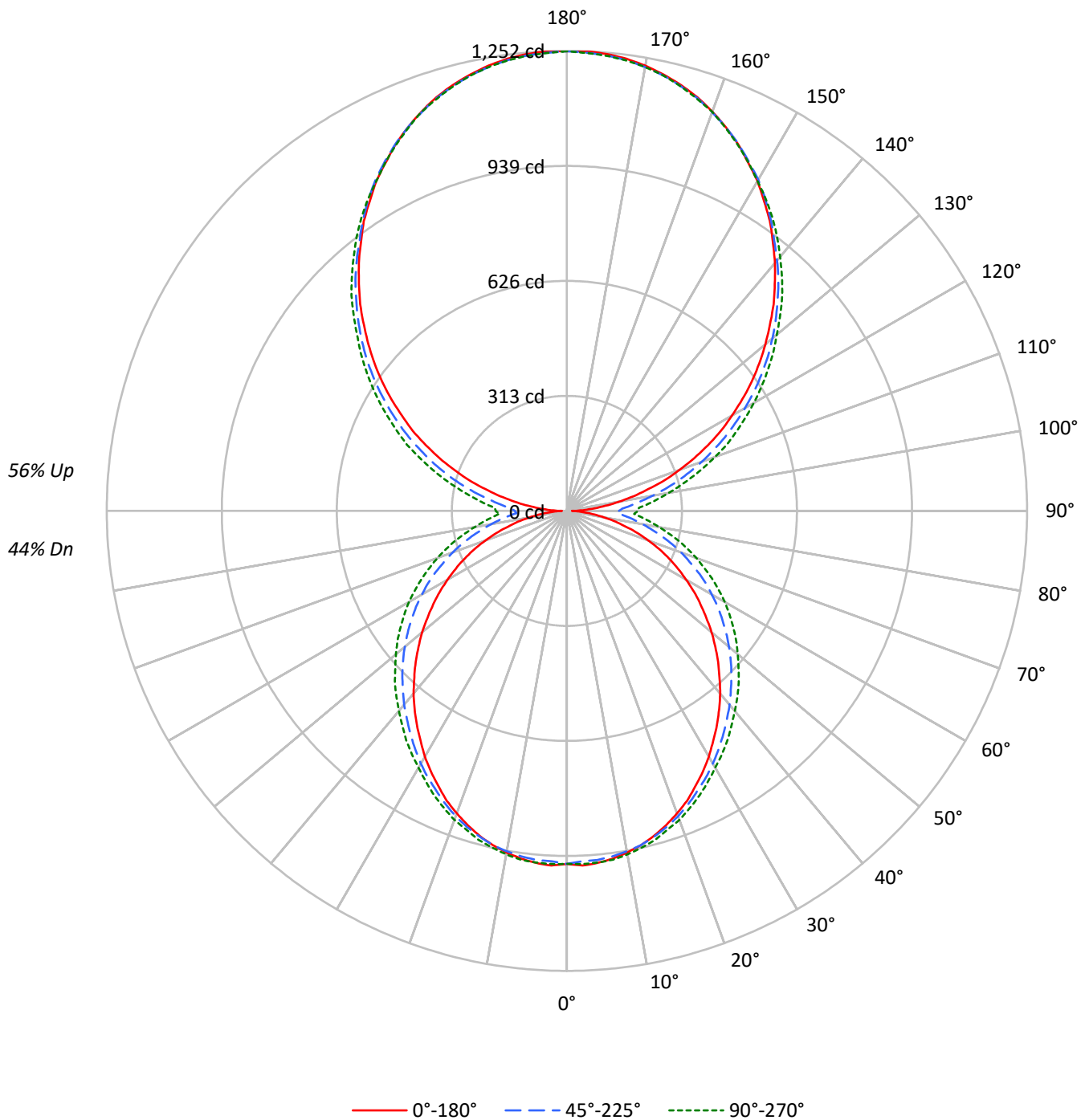
Lumens per Lamp: N/A
Luminaire Lumens: 6698.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	87	83	80	76	69	66	64	56	54	52	43	42	41
2	87	79	72	67	79	72	67	62	60	56	52	48	45	43	38	36	34
3	79	69	61	55	72	63	57	51	52	47	43	42	39	36	33	31	28
4	72	61	53	46	65	56	49	43	46	41	37	38	34	30	29	27	24
5	66	54	46	40	60	50	42	37	41	36	31	34	29	26	26	23	21
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	24	21	18
7	56	44	35	30	51	40	33	28	34	28	24	27	23	20	22	19	16
8	52	39	32	26	47	36	29	24	31	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	19	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10342	10342	10342
5°	10370	10039	10030
10°	10273	9766	9692
15°	10137	9466	9333
20°	9944	9132	8948
25°	9706	8754	8548
30°	9464	8414	8147
35°	9191	8055	7821
40°	8931	7728	7476
45°	8642	7412	7193
50°	8357	7097	6883
55°	8041	6775	6600
60°	7732	6446	6309
65°	7414	6095	5969
70°	6935	5701	5618
75°	6330	5252	5255
80°	5624	4797	4844
85°	4928	4431	4546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.4
10°-20°	259.8	3.9
20°-30°	388.5	5.8
30°-40°	463.9	6.9
40°-50°	485.4	7.2
50°-60°	455.5	6.8
60°-70°	380.5	5.7
70°-80°	272.0	4.1
80°-90°	164.5	2.5
90°-100°	182.3	2.7
100°-110°	318.5	4.8
110°-120°	464.9	6.9
120°-130°	574.4	8.6
130°-140°	626.4	9.4
140°-150°	605.9	9.0
150°-160°	507.9	7.6
160°-170°	338.1	5.0
170°-180°	118.4	1.8
0°-30°	739.5	11.0
0°-40°	1203.4	18.0
0°-60°	2144.3	32.0
0°-90°	2961.3	44.2
90°-120°	965.7	14.4
90°-150°	2772.3	41.4
90°-180°	3737.0	55.8
0°-180°	6698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	962	960	954	962	961	91
15°	916	919	918	928	927	258
25°	827	837	840	854	854	381
35°	712	728	742	758	762	445
45°	582	607	633	653	662	449
55°	444	478	516	544	553	397
65°	307	348	394	425	435	303
75°	166	216	268	302	315	178
85°	51	104	159	195	205	53
90°	15	76	142	181	194	14
95°	70	117	176	213	223	73
105°	230	257	310	340	351	245
115°	423	438	474	500	508	419
125°	614	617	646	664	667	548
135°	795	800	811	826	829	613
145°	963	964	967	974	975	601
155°	1102	1102	1103	1107	1100	507
165°	1200	1197	1197	1203	1196	338
175°	1248	1244	1244	1250	1243	119
180°	1251	1251	1251	1251	1251	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.8	960.8	960.8	960.8	960.8
2.5°	966.0	962.9	954.5	962.9	961.8
5°	961.8	959.7	953.5	961.8	960.8
7.5°	954.5	954.5	948.2	958.7	957.6
10°	944.0	946.1	940.9	951.4	949.3
12.5°	931.5	934.6	931.5	940.9	938.8
15°	915.8	918.9	917.9	928.3	927.3
17.5°	896.9	903.2	902.2	911.6	909.5
20°	876.0	882.3	884.4	893.8	894.9
22.5°	854.0	860.3	863.5	876.0	875.0
25°	826.8	837.3	840.4	854.0	854.0
27.5°	800.7	812.2	818.4	830.0	831.0
30°	772.4	786.0	794.4	806.9	806.9
32.5°	741.0	756.7	768.2	781.8	785.0
35°	711.7	728.4	742.0	757.7	761.9
37.5°	680.3	699.1	714.8	732.6	735.8
40°	648.9	667.7	688.7	706.5	710.6
42.5°	614.4	638.4	660.4	680.3	686.6
45°	581.9	607.0	633.2	653.1	661.5
47.5°	547.4	575.6	604.9	626.9	633.2
50°	513.9	543.2	575.6	599.7	607.0
52.5°	478.3	509.7	546.3	571.4	580.9
55°	443.8	478.3	516.0	544.2	552.6
57.5°	410.3	445.9	486.7	514.9	524.4
60°	374.7	412.4	455.3	484.6	496.1
62.5°	341.2	379.9	426.0	455.3	465.7
65°	306.7	347.5	393.5	424.9	435.4
67.5°	272.1	315.0	361.1	395.6	404.0
70°	235.5	280.5	330.7	364.2	374.7
72.5°	202.0	247.0	299.3	333.9	344.3
75°	166.4	215.6	267.9	302.5	315.0
77.5°	136.1	185.2	237.6	274.2	283.6
80°	103.6	154.9	209.3	244.9	255.4
82.5°	75.4	127.7	183.2	218.7	229.2
85°	51.3	103.6	159.1	194.7	205.1
87.5°	31.4	83.7	137.1	172.7	183.2
90°	14.6	75.7	141.9	181.4	193.8
92.5°	42.1	93.0	151.2	188.6	196.2
95°	69.5	117.2	176.3	212.8	223.2
97.5°	105.8	148.3	203.4	239.7	249.3
100°	143.1	182.4	235.6	268.8	281.3
102.5°	186.3	218.5	272.5	304.8	314.2
105°	229.5	256.6	310.4	339.7	351.1
107.5°	279.5	302.5	349.3	380.6	389.0
110°	325.7	346.5	390.3	421.5	427.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.8	390.4	430.2	461.3	470.7
115°	422.9	438.4	474.1	500.2	507.6
117.5°	473.0	482.4	516.0	541.1	546.6
120°	518.2	529.3	559.0	582.0	587.4
122.5°	566.3	572.4	602.8	622.8	627.3
125°	614.4	617.3	645.7	663.8	667.2
127.5°	659.6	664.5	688.7	703.7	707.1
130°	704.8	711.6	729.6	745.6	745.0
132.5°	749.0	756.8	770.6	784.5	786.9
135°	795.2	800.0	810.6	825.5	828.7
137.5°	837.4	841.2	851.6	863.4	865.7
140°	880.5	885.5	889.6	904.4	902.7
142.5°	920.8	924.8	926.7	939.3	939.6
145°	963.1	964.1	967.0	974.4	974.7
147.5°	998.5	1002.4	1005.3	1008.4	1006.7
150°	1036.8	1038.8	1040.7	1040.7	1036.9
152.5°	1068.2	1071.2	1072.2	1074.1	1069.2
155°	1101.6	1101.6	1102.6	1106.6	1099.7
157.5°	1130.1	1129.2	1130.1	1134.1	1128.2
160°	1156.7	1154.7	1154.7	1159.6	1155.7
162.5°	1180.3	1177.3	1178.3	1183.2	1176.3
165°	1199.9	1197.0	1197.0	1202.9	1196.0
167.5°	1216.6	1212.7	1213.7	1219.6	1213.7
170°	1230.4	1226.5	1226.5	1233.3	1226.5
172.5°	1241.2	1237.3	1237.3	1243.2	1236.3
175°	1248.1	1244.1	1244.1	1250.0	1243.2
177.5°	1252.0	1248.1	1248.1	1254.0	1247.1
180°	1251.0	1251.0	1251.0	1251.0	1251.0

(END OF REPORT)