

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: P1011917

Luminaire Tested: S123DIP-B775D1025UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011917
REPORT IS A COMBINATION OF REPORTS P990256 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB35-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

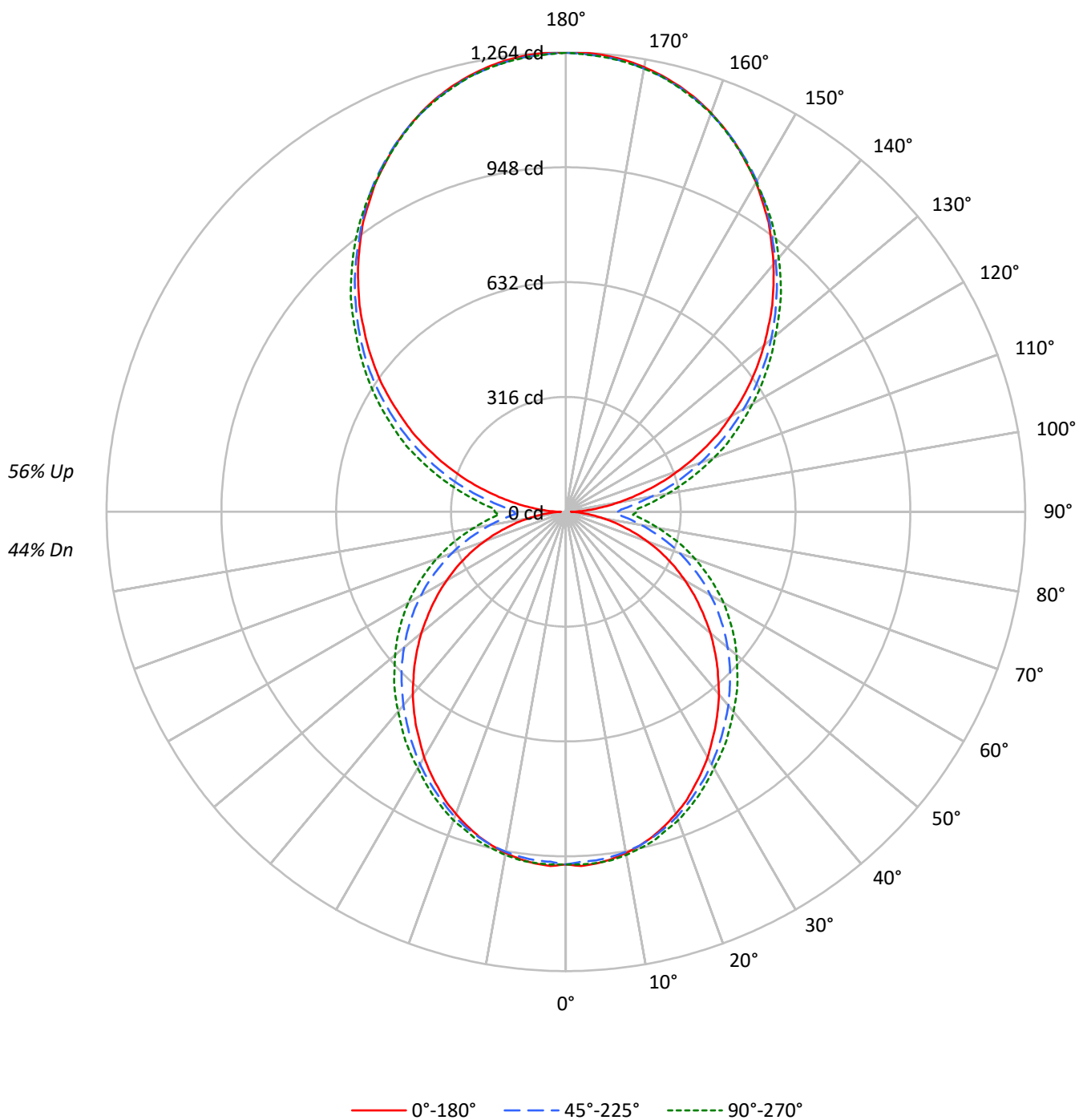
Lumens per Lamp: N/A
Luminaire Lumens: 6764.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	10444	10444	10444
5°	10473	10138	10130
10°	10375	9863	9788
15°	10238	9560	9426
20°	10043	9222	9036
25°	9803	8842	8633
30°	9558	8496	8228
35°	9281	8135	7899
40°	9019	7805	7550
45°	8728	7485	7263
50°	8440	7167	6951
55°	8121	6842	6666
60°	7808	6510	6371
65°	7487	6155	6028
70°	7003	5758	5674
75°	6394	5305	5309
80°	5679	4846	4891
85°	4976	4475	4593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.4
10°-20°	262.4	3.9
20°-30°	392.4	5.8
30°-40°	468.5	6.9
40°-50°	490.2	7.2
50°-60°	460.0	6.8
60°-70°	384.2	5.7
70°-80°	274.7	4.1
80°-90°	166.2	2.5
90°-100°	184.0	2.7
100°-110°	321.6	4.8
110°-120°	469.4	6.9
120°-130°	580.0	8.6
130°-140°	632.5	9.4
140°-150°	611.9	9.0
150°-160°	512.9	7.6
160°-170°	341.4	5.0
170°-180°	119.6	1.8
0°-30°	746.8	11.0
0°-40°	1215.3	18.0
0°-60°	2165.5	32.0
0°-90°	2990.6	44.2
90°-120°	975.1	14.4
90°-150°	2799.5	41.4
90°-180°	3773.0	55.8
0°-180°	6764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	971	969	963	971	970	92
15°	925	928	927	938	936	261
25°	835	846	849	862	862	385
35°	719	736	749	765	770	449
45°	588	613	640	660	668	453
55°	448	483	521	550	558	401
65°	310	351	397	429	440	306
75°	168	218	271	306	318	180
85°	52	105	161	197	207	53
90°	15	76	143	183	196	14
95°	70	118	178	215	225	74
105°	232	259	314	343	355	248
115°	427	443	479	505	512	423
125°	620	623	652	670	674	554
135°	803	808	818	834	837	619
145°	973	974	976	984	984	607
155°	1112	1112	1113	1117	1110	512
165°	1212	1209	1209	1215	1208	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.3	970.3	970.3	970.3	970.3
2.5°	975.6	972.4	964.0	972.4	971.4
5°	971.4	969.3	962.9	971.4	970.3
7.5°	964.0	964.0	957.6	968.2	967.1
10°	953.4	955.5	950.2	960.8	958.7
12.5°	940.7	943.9	940.7	950.2	948.1
15°	924.9	928.0	927.0	937.5	936.5
17.5°	905.8	912.2	911.1	920.6	918.5
20°	884.7	891.0	893.1	902.7	903.7
22.5°	862.5	868.8	872.0	884.7	883.6
25°	835.0	845.6	848.8	862.5	862.5
27.5°	808.6	820.2	826.6	838.2	839.2
30°	780.1	793.8	802.2	814.9	814.9
32.5°	748.3	764.2	775.8	789.6	792.7
35°	718.7	735.7	749.4	765.3	769.5
37.5°	687.0	706.1	721.9	739.9	743.1
40°	655.3	674.4	695.5	713.5	717.7
42.5°	620.4	644.8	667.0	687.0	693.4
45°	587.7	613.0	639.5	659.6	668.0
47.5°	552.8	581.3	610.9	633.1	639.5
50°	519.0	548.6	581.3	605.7	613.0
52.5°	483.0	514.8	551.7	577.1	586.6
55°	448.2	483.0	521.1	549.6	558.1
57.5°	414.3	450.3	491.5	520.0	529.5
60°	378.4	416.5	459.8	489.4	501.0
62.5°	344.6	383.7	430.2	459.8	470.4
65°	309.7	350.9	397.4	429.1	439.7
67.5°	274.8	318.2	364.7	399.5	408.0
70°	237.8	283.3	334.0	367.8	378.4
72.5°	204.0	249.4	302.3	337.2	347.7
75°	168.1	217.7	270.6	305.5	318.2
77.5°	137.4	187.1	239.9	276.9	286.4
80°	104.6	156.4	211.4	247.3	257.9
82.5°	76.1	129.0	185.0	220.9	231.5
85°	51.8	104.6	160.7	196.6	207.2
87.5°	31.7	84.6	138.5	174.4	185.0
90°	14.7	76.4	143.2	183.2	195.7
92.5°	42.5	93.8	152.7	190.6	198.1
95°	70.1	118.3	178.0	214.8	225.4
97.5°	106.9	149.8	205.5	242.1	251.7
100°	144.5	184.2	237.9	271.5	284.0
102.5°	188.1	220.7	275.1	307.7	317.3
105°	231.8	259.1	313.5	343.1	354.6
107.5°	282.3	305.5	352.7	384.3	392.8
110°	328.8	349.9	394.1	425.6	432.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.4	394.2	434.4	465.8	475.3
115°	427.1	442.7	478.7	505.1	512.5
117.5°	477.7	487.1	521.1	546.4	551.9
120°	523.2	534.5	564.4	587.7	593.1
122.5°	571.8	577.9	608.7	629.0	633.5
125°	620.5	623.4	652.0	670.3	673.7
127.5°	666.1	671.0	695.4	710.6	714.0
130°	711.8	718.6	736.8	752.8	752.3
132.5°	756.3	764.2	778.2	792.2	794.6
135°	802.9	807.9	818.5	833.5	836.8
137.5°	845.6	849.6	860.0	871.9	874.2
140°	889.3	894.2	898.3	913.2	911.6
142.5°	930.0	933.8	935.8	948.5	948.8
145°	972.6	973.5	976.5	984.0	984.2
147.5°	1008.2	1012.2	1015.2	1018.4	1016.6
150°	1046.9	1048.9	1050.9	1050.9	1047.1
152.5°	1078.7	1081.7	1082.7	1084.7	1079.7
155°	1112.4	1112.4	1113.4	1117.4	1110.5
157.5°	1141.2	1140.2	1141.2	1145.2	1139.2
160°	1168.0	1166.0	1166.0	1171.0	1167.0
162.5°	1191.8	1188.9	1189.8	1194.8	1187.9
165°	1211.7	1208.7	1208.7	1214.7	1207.7
167.5°	1228.6	1224.6	1225.6	1231.5	1225.6
170°	1242.4	1238.5	1238.5	1245.4	1238.5
172.5°	1253.4	1249.4	1249.4	1255.3	1248.4
175°	1260.3	1256.3	1256.3	1262.3	1255.3
177.5°	1264.3	1260.3	1260.3	1266.3	1259.3
180°	1263.3	1263.3	1263.3	1263.3	1263.3

(END OF REPORT)