

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: P1012092

Luminaire Tested: S123DIP-B775D805UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012092
REPORT IS A COMBINATION OF REPORTS P990495 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB35-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

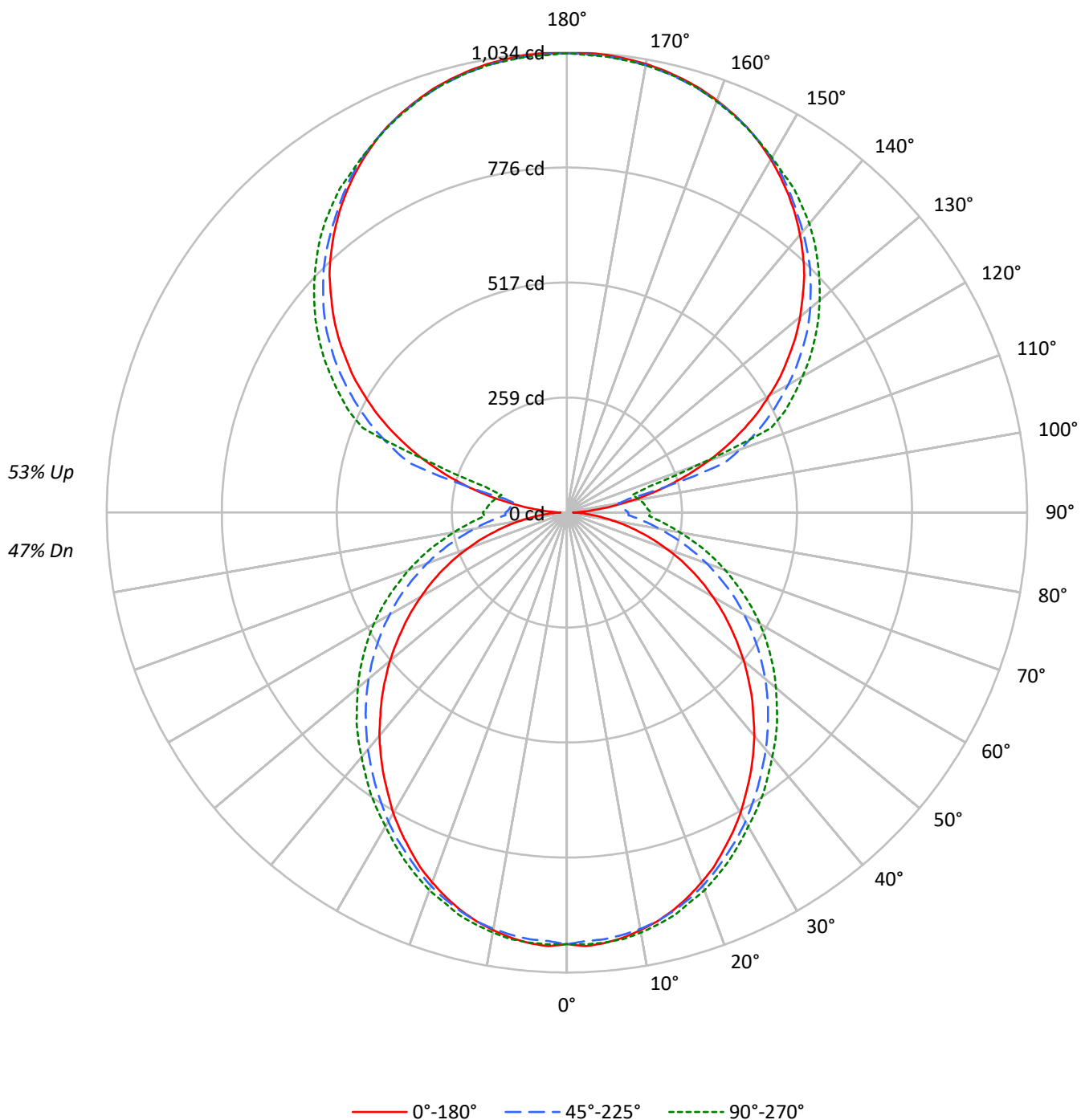
Lumens per Lamp: N/A
Luminaire Lumens: 6410.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
Input Voltage (V):
Input Current (A_{in}): 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
RCR																	
0	106	106	106	106	98	98	98	98	81	81	81		67	67	67		53
1	96	91	87	83	88	84	80	77	70	67	65		57	55	53		45
2	87	79	73	67	80	73	67	62	61	57	53		50	47	44		39
3	79	69	62	55	72	64	57	52	53	48	44		44	40	37		35
4	72	61	53	47	66	56	49	43	47	42	37		39	34	31		31
5	66	54	46	40	60	50	43	37	42	36	32		35	30	27		28
6	61	49	40	34	56	45	37	32	38	32	28		31	27	23		25
7	56	44	36	30	51	40	33	28	34	28	24		28	24	21		23
8	52	40	32	26	48	37	30	25	31	25	21		26	21	18		21
9	49	36	29	23	44	33	27	22	28	23	19		24	19	16		19
10	45	33	26	21	42	31	24	20	26	21	17		22	18	15		18

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	4.1
20°-30°	392.4	6.1
30°-40°	468.5	7.3
40°-50°	490.2	7.6
50°-60°	460.0	7.2
60°-70°	384.2	6.0
70°-80°	274.7	4.3
80°-90°	165.5	2.6
90°-100°	139.1	2.2
100°-110°	251.5	3.9
110°-120°	481.7	7.5
120°-130°	576.3	9.0
130°-140°	597.8	9.3
140°-150°	549.6	8.6
150°-160°	441.2	6.9
160°-170°	284.7	4.4
170°-180°	98.1	1.5
0°-30°	746.8	11.7
0°-40°	1215.3	19.0
0°-60°	2165.5	33.8
0°-90°	2990.0	46.6
90°-120°	872.3	13.6
90°-150°	2596.0	40.5
90°-180°	3420.0	53.4
0°-180°	6410.0	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°	14	74	138	177	189	12
95°	58	68	128	166	177	65
105°	237	271	247	141	152	251
115°	434	451	496	529	541	429
125°	608	614	647	671	680	543
135°	754	758	773	794	797	581
145°	869	874	875	885	889	544
155°	956	955	956	959	955	441
165°	1008	1006	1005	1012	1006	285
175°	1032	1028	1029	1035	1028	98
180°	1032	1032	1032	1032	1032	

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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°	14.5	73.9	137.8	176.9	188.9
92.5°	30.3	71.1	130.9	171.2	181.5
95°	58.4	68.1	128.4	166.5	177.1
97.5°	95.7	112.3	122.8	160.7	172.0
100°	139.1	188.2	117.3	154.0	165.4
102.5°	188.7	228.3	142.4	146.6	158.8
105°	237.0	270.8	247.3	141.1	152.1
107.5°	287.3	316.4	371.2	281.7	190.8
110°	337.6	362.8	413.5	415.7	314.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	386.7	406.9	455.5	488.8	496.8
115°	434.0	451.3	496.2	529.3	540.7
117.5°	481.6	495.3	535.2	566.6	575.9
120°	524.2	536.4	573.6	604.0	611.4
122.5°	568.6	576.1	612.0	639.1	647.3
125°	607.5	613.7	647.3	671.1	680.0
127.5°	647.4	652.4	682.7	706.2	712.0
130°	684.2	689.3	713.5	736.6	741.5
132.5°	718.4	724.5	742.7	764.8	769.9
135°	754.4	758.0	772.7	794.0	797.0
137.5°	785.1	790.3	799.2	819.9	823.7
140°	814.8	819.4	824.8	843.8	847.5
142.5°	843.2	846.7	849.0	865.0	868.0
145°	869.2	873.5	875.0	885.1	889.3
147.5°	893.5	897.3	898.8	903.6	903.9
150°	916.5	918.8	920.3	921.8	921.6
152.5°	937.2	937.9	938.7	941.8	937.9
155°	956.3	954.8	955.6	959.4	954.8
157.5°	971.7	971.7	970.9	975.5	969.4
160°	985.5	984.7	983.9	988.5	983.2
162.5°	998.5	996.2	995.5	1000.8	996.2
165°	1008.5	1006.2	1005.4	1011.6	1006.2
167.5°	1016.9	1013.9	1013.9	1020.0	1013.9
170°	1023.8	1020.8	1020.8	1026.9	1020.8
172.5°	1028.4	1024.6	1025.4	1031.5	1024.6
175°	1032.3	1028.4	1029.2	1034.6	1028.4
177.5°	1033.8	1030.0	1030.7	1036.9	1029.2
180°	1032.3	1032.3	1032.3	1032.3	1032.3

(END OF REPORT)