

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: P1012093

Luminaire Tested: S123DIP-B775D805UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012093
REPORT IS A COMBINATION OF REPORTS P990497 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-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

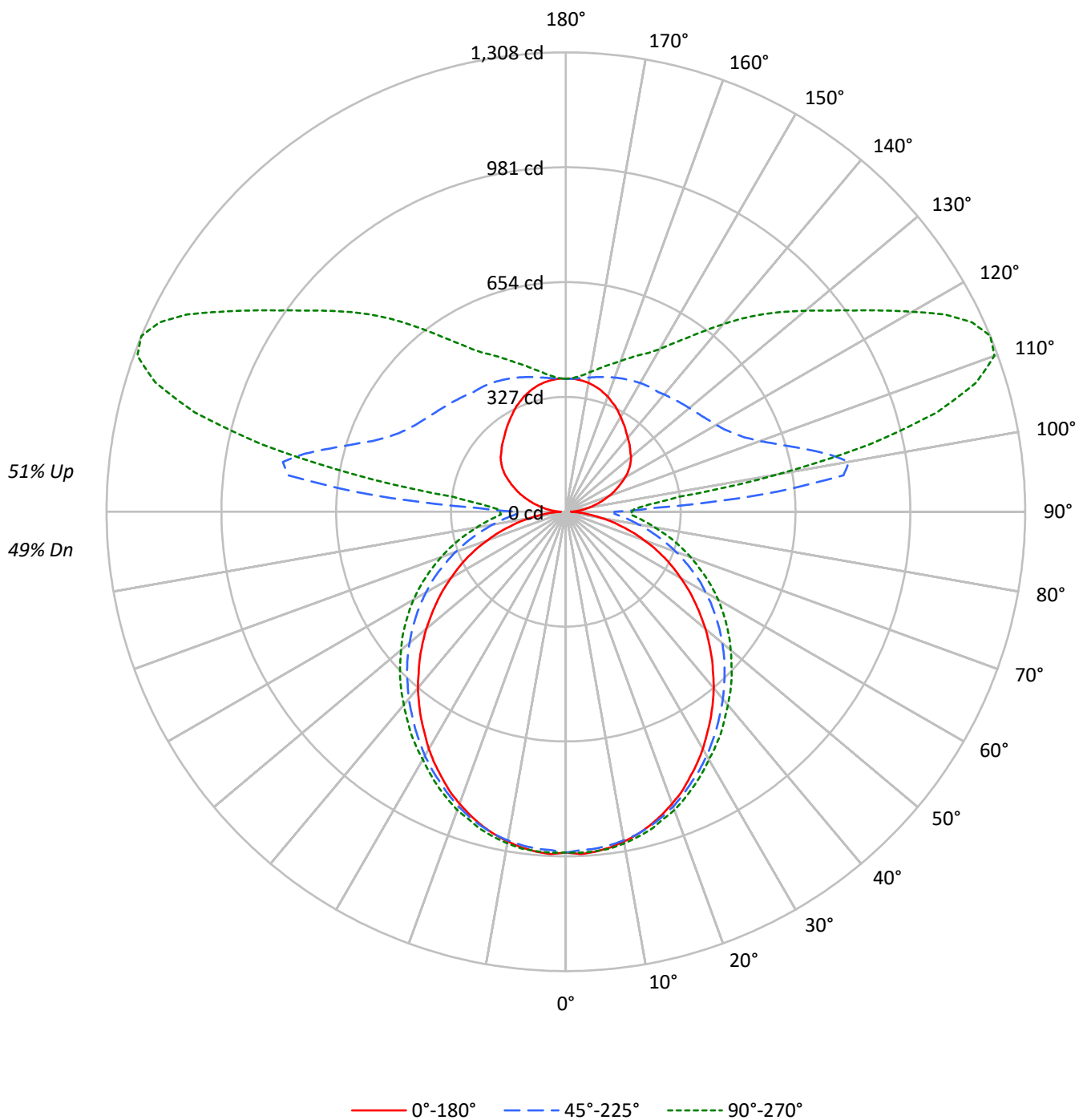
Lumens per Lamp: N/A
Luminaire Lumens: 6119.6 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
Input Voltage (V):
Input Current (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	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	96	92	87	84	89	84	81	77	71	68	66	59	57	55	47	46	44	39		
2	87	80	73	67	80	73	68	63	62	57	54	51	48	45	41	39	37	32		
3	80	70	62	56	73	64	57	52	54	49	45	45	41	38	36	33	31	27		
4	73	61	53	47	66	57	49	44	48	42	38	40	35	32	32	29	26	22		
5	67	54	46	40	61	50	43	37	43	37	32	35	31	27	29	25	23	19		
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	22	20	17		
7	57	44	36	30	52	41	33	28	35	29	25	29	24	21	24	20	18	15		
8	52	40	32	26	48	37	30	25	32	26	22	26	22	19	22	18	16	13		
9	49	36	29	24	45	34	27	22	29	23	19	24	20	17	20	17	14	12		
10	46	33	26	21	42	31	24	20	27	21	17	22	18	15	18	15	13	11		

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	1.5
10°-20°	262.4	4.3
20°-30°	392.4	6.4
30°-40°	468.5	7.7
40°-50°	490.2	8.0
50°-60°	460.0	7.5
60°-70°	384.2	6.3
70°-80°	274.7	4.5
80°-90°	165.6	2.7
90°-100°	318.0	5.2
100°-110°	677.3	11.1
110°-120°	637.2	10.4
120°-130°	496.0	8.1
130°-140°	381.8	6.2
140°-150°	277.9	4.5
150°-160°	192.0	3.1
160°-170°	112.8	1.8
170°-180°	36.7	0.6
0°-30°	746.8	12.2
0°-40°	1215.3	19.9
0°-60°	2165.5	35.4
0°-90°	2990.1	48.9
90°-120°	1632.5	26.7
90°-150°	2788.1	45.6
90°-180°	3130.0	51.1
0°-180°	6119.6	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	75	139	177	188	12
95°	38	138	559	270	237	37
105°	98	165	696	1187	1094	103
115°	162	214	528	1116	1276	161
125°	222	261	474	854	999	197
135°	258	307	447	689	796	200
145°	293	335	429	547	606	184
155°	332	358	415	472	492	153
165°	363	373	397	421	429	102
175°	378	378	381	386	386	36
180°	379	379	379	379	379	

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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°	15.2	74.7	138.6	176.8	188.1
92.5°	24.2	104.1	253.7	194.6	196.0
95°	37.7	137.6	559.4	270.1	237.0
97.5°	52.0	145.6	797.8	463.6	323.1
100°	66.3	150.2	818.3	820.6	614.1
102.5°	81.4	156.6	762.0	1049.7	887.4
105°	97.5	165.3	695.9	1187.2	1094.0
107.5°	113.2	176.4	636.6	1243.1	1226.1
110°	130.5	188.0	587.6	1238.6	1298.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.4	200.2	552.1	1187.9	1308.2
115°	162.5	214.0	527.7	1115.6	1276.3
117.5°	178.6	225.8	508.3	1038.6	1216.3
120°	194.4	237.7	494.6	965.6	1138.3
122.5°	209.0	249.8	483.9	906.8	1066.1
125°	221.8	261.2	474.0	853.6	999.1
127.5°	232.5	274.0	466.4	809.0	940.6
130°	242.5	286.2	458.9	767.3	890.3
132.5°	249.1	297.4	452.9	728.0	842.8
135°	258.3	306.8	446.8	688.6	795.5
137.5°	266.7	315.2	441.1	650.1	747.0
140°	274.1	322.8	436.0	613.3	697.2
142.5°	283.3	328.6	430.3	578.2	649.4
145°	293.3	334.8	428.7	547.3	605.5
147.5°	302.2	341.3	426.4	522.1	568.0
150°	312.1	346.7	423.4	501.2	535.1
152.5°	322.1	352.4	419.5	485.8	510.0
155°	332.1	358.2	414.9	471.7	491.6
157.5°	339.8	363.2	411.1	457.8	474.0
160°	349.0	367.4	406.5	445.2	457.1
162.5°	355.9	370.4	401.9	433.3	441.8
165°	362.8	373.1	397.3	421.4	428.7
167.5°	368.1	375.4	392.7	411.0	415.7
170°	372.7	376.6	388.1	401.8	404.2
172.5°	375.8	377.7	384.2	393.8	393.4
175°	378.1	378.5	381.2	386.5	385.8
177.5°	379.6	378.9	378.9	381.9	380.4
180°	378.9	378.9	378.9	378.9	378.9

(END OF REPORT)