

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P982512

Luminaire Tested: DTR3-DR-4F0-065D-935-FLL-D

Issue Date: 1/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P982512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2501-325-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: DTR3-DR-4F0-065D-935-FLL-D
Description: Define Torrent LED Luminaire
Light Source: -
Ballast/Driver: -

Summary

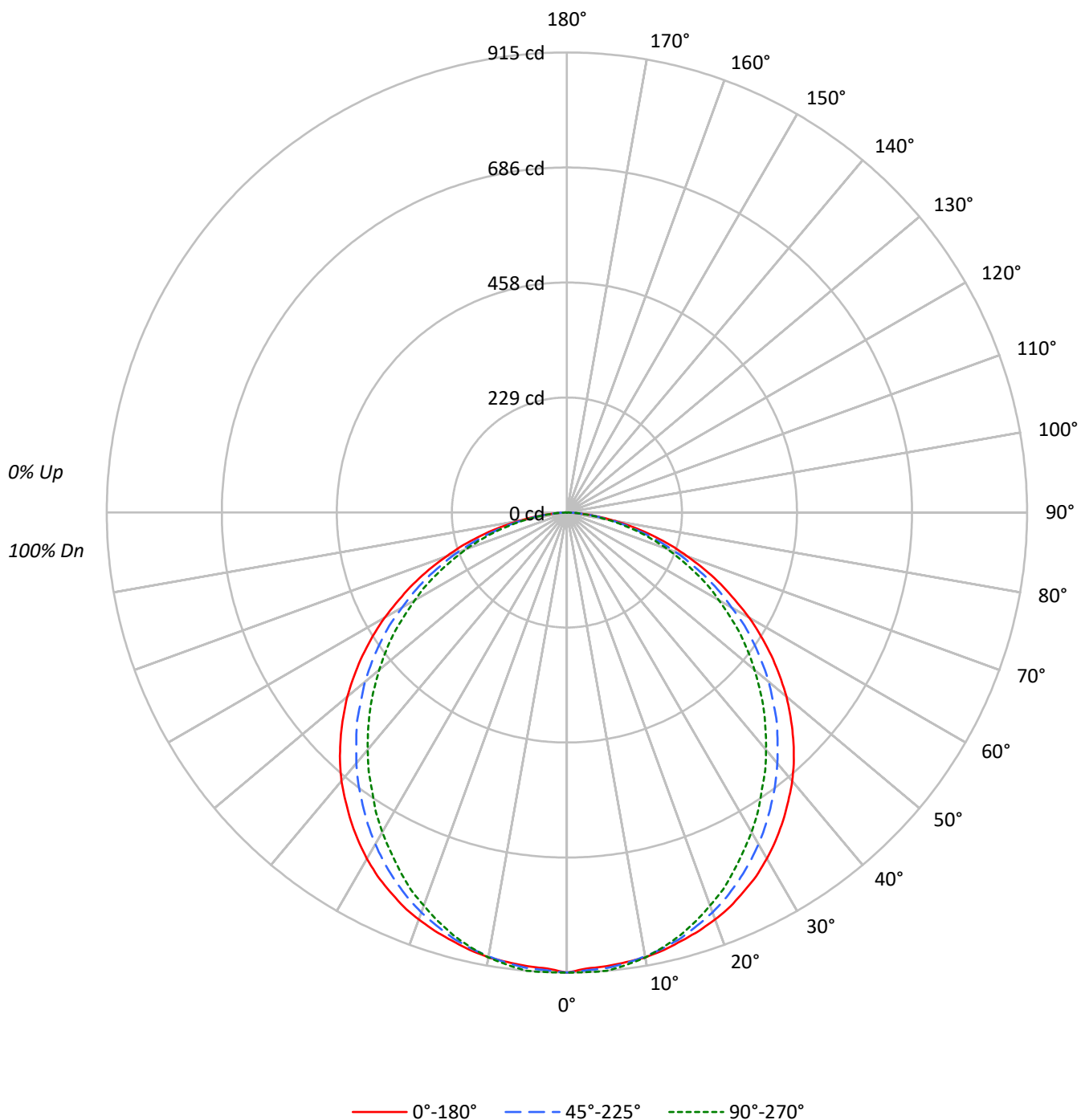
Lumens per Lamp: N/A
Luminaire Lumens: 2527.8 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.2 / 1.35
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 8.21
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	46	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9850	9850	9850
5°	9788	9827	9888
10°	9819	9800	9819
15°	9826	9765	9703
20°	9868	9699	9530
25°	9881	9596	9334
30°	9882	9470	9125
35°	9842	9309	8872
40°	9798	9150	8658
45°	9689	8987	8426
50°	9545	8773	8155
55°	9312	8518	7893
60°	9016	8142	7507
65°	8599	7801	7144
70°	8013	7257	6678
75°	7290	6521	6059
80°	6062	5492	5033
85°	4100	4100	3656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9689 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.4
10°-20°	247.5	9.8
20°-30°	373.0	14.8
30°-40°	445.0	17.6
40°-50°	456.8	18.1
50°-60°	407.2	16.1
60°-70°	303.9	12.0
70°-80°	167.9	6.6
80°-90°	39.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	707.1	28.0
0°-40°	1152.1	45.6
0°-60°	2016.1	79.8
0°-90°	2527.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2527.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	906	917	910	910	915	86
15°	882	889	876	869	871	249
25°	832	832	808	788	786	384
35°	749	740	708	684	675	469
45°	636	624	590	563	554	491
55°	496	483	454	430	421	443
65°	338	326	306	288	280	333
75°	175	168	157	149	146	185
85°	33	33	33	31	30	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.1	915.1	915.1	915.1	915.1
2.5°	907.6	918.8	911.3	913.2	915.1
5°	905.9	916.9	909.5	909.5	915.1
7.5°	902.1	913.2	904.0	902.1	907.6
10°	898.4	907.6	896.6	892.9	898.4
12.5°	891.1	898.4	887.4	881.8	885.5
15°	881.8	889.2	876.3	869.0	870.7
17.5°	872.6	878.2	861.5	852.3	852.3
20°	861.5	863.4	846.7	833.8	832.0
22.5°	848.6	850.5	828.4	811.7	811.7
25°	832.0	832.0	808.0	787.7	785.9
27.5°	815.4	811.7	785.9	765.6	760.0
30°	795.1	789.6	761.9	739.8	734.2
32.5°	773.0	765.6	736.1	712.1	706.6
35°	749.0	739.8	708.4	684.4	675.2
37.5°	723.2	712.1	680.8	655.0	647.5
40°	697.3	684.4	651.2	625.4	616.2
42.5°	667.9	655.0	619.8	594.0	584.8
45°	636.5	623.5	590.4	562.7	553.5
47.5°	603.3	590.4	555.3	529.5	520.2
50°	570.0	555.3	523.9	496.2	487.0
52.5°	533.1	520.2	488.9	463.1	453.9
55°	496.2	483.3	453.9	429.9	420.6
57.5°	457.5	446.4	418.8	393.0	383.7
60°	418.8	405.9	378.2	357.9	348.7
62.5°	376.4	365.3	343.2	322.8	317.3
65°	337.6	326.5	306.3	287.8	280.5
67.5°	297.0	287.8	267.5	252.8	245.3
70°	254.6	247.2	230.6	217.7	212.2
72.5°	215.9	206.6	193.7	182.6	179.0
75°	175.3	167.9	156.8	149.4	145.7
77.5°	134.6	129.2	121.7	116.3	112.5
80°	97.8	92.3	88.6	84.8	81.2
82.5°	62.7	59.0	59.0	55.4	53.5
85°	33.2	33.2	33.2	31.4	29.6
87.5°	11.1	12.9	12.9	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.05	21.68	20.42	22.00	22.31	19.11	20.74	19.47	21.05	21.36
	3H	21.83	23.30	22.21	23.63	23.99	20.82	22.29	21.20	22.62	22.98
	4H	22.47	23.86	22.87	24.20	24.58	21.44	22.83	21.84	23.17	23.55
	6H	22.90	24.18	23.31	24.55	24.94	21.86	23.14	22.27	23.50	23.90
	8H	23.01	24.24	23.43	24.62	25.02	21.97	23.19	22.39	23.58	23.98
	12H	23.07	24.24	23.50	24.62	25.05	22.03	23.20	22.46	23.59	24.01
4H	2H	20.57	21.96	20.97	22.31	22.68	19.82	21.21	20.22	21.56	21.93
	3H	22.57	23.73	22.98	24.13	24.53	21.74	22.90	22.15	23.30	23.70
	4H	23.34	24.39	23.77	24.80	25.24	22.47	23.52	22.91	23.94	24.37
	6H	23.88	24.80	24.34	25.24	25.69	23.00	23.92	23.45	24.36	24.81
	8H	24.03	24.89	24.49	25.33	25.80	23.15	24.00	23.61	24.45	24.91
	12H	24.12	24.89	24.60	25.37	25.84	23.24	24.01	23.72	24.48	24.95
8H	4H	23.58	24.43	24.04	24.87	25.34	22.81	23.66	23.27	24.10	24.57
	6H	24.22	24.93	24.71	25.41	25.89	23.43	24.15	23.93	24.63	25.11
	8H	24.42	25.06	24.93	25.56	26.05	23.64	24.28	24.15	24.78	25.27
	12H	24.56	25.12	25.07	25.61	26.17	23.78	24.35	24.29	24.84	25.40
12H	4H	23.59	24.36	24.07	24.84	25.31	22.84	23.61	23.32	24.08	24.55
	6H	24.24	24.88	24.75	25.39	25.87	23.48	24.12	23.99	24.63	25.12
	8H	24.49	25.06	25.00	25.55	26.11	23.74	24.30	24.25	24.79	25.35